

synergy™

Programming Manual



SCIGATE AUTOMATION (S) PTE LTD

No.1 Bukit Batok Street 22 #01-01 Singapore 659592

Tel: (65) 6561 0488

Fax: (65) 6562 0588

Email: sales@scigate.com.sg

Web: www.scigate.com.sg

Business Hours: Monday - Friday 8.30am - 6.15pm



Local Keypad



CONFORMS
TO STD UL 508
CSA 22.2
No. 14

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]		Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
Auto Setup	>>>>>>>>	Application:	<p>The Unit has numerous preset applications built in as standard. Select the application best suited to the load.</p> <p>The selected application will automatically change several parameters and functions. Depending on the application loaded the "Trip Class" may also change</p> <p>Refer to the separate 'applications document' for more details</p> <p>Range <input type="text" value="Default"/> - <input type="text" value="End of list"/> Default <input type="text" value="Default"/> Type <input type="text" value="Read/Write"/></p>	19200
Auto Setup	>>>>>>>>	Trip Class	<p>The trip class is a numeric value that correlates the trip time with overload level. Select Trip class according to application requirements</p> <p>The trip time depends on the selected Trip Class, the duration of the overload and the level of the over current. Refer to the Motor Overload 'cold' trip curves given in the Quick Start Guide.</p> <p>When "Class 20" or "Class30" are selected the Unit current rating (i-Unit) will be reduced to a lower value (i-rated).</p> <p>Range <input type="text" value="10"/> - <input type="text" value="30"/> Default <input type="text" value="10"/> Type <input type="text" value="Read/Write"/></p>	25664
Auto Setup	>>>>>>>>	Motor Current	<p>This should be set to the Full Load Current shown on the motor plate</p> <p>The overload works with multiples of the set "Motor Current" (i-motor)</p> <p>Also referred to as Motor FLA</p> <p>Range <input type="text" value="50% I-rated"/> - <input type="text" value="100% I-rated"/> Default <input type="text" value="100% I-rated"/> Type <input type="text" value="Read/Write"/></p>	25728
Auto Setup	>>>>>>>>	Control Method	<p>Local Touch Screen : Control using the button on the keypad User Programmable : Control using the terminals, function defined in "I/O" menu Two Wire Control : Control using terminals, functions fixed as shown on screen Three Wire Control : Control using terminals, functions fixed as shown on screen</p> <p>Modbus Network : Control via remote Modbus network or remote Keypad or Modbus TCP</p> <p>Range <input type="text" value="Local Touch Screen"/> - <input type="text" value="Modbus Network"/> Default <input type="text" value="Local Touch Screen"/> Type <input type="text" value="Read/Write"/></p>	59392
Auto Setup	>>>>>>>>	Digital Input Voltage	<p>The digital inputs D1-1I, D1-2I, D2-1I are designed to work with a range of control supplies 230V : 'Active high level' Input voltage must be in the range 195.5V - 253V 110V : 'Active high level' Input voltage must be in the range 93.5V - 121V 24V : 'Active high level' input voltage must be in the range 20.4V-26.4V</p> <p>It is important to ensure the "Digital input Voltage" corresponds to the voltage applied to the input. Failure to do so may result in damage.</p> <p>Range <input type="text" value="230V"/> - <input type="text" value="24VDC"/> Default <input type="text" value="230V"/> Type <input type="text" value="Read/Write"/></p>	10880

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<p>Advanced</p> <p>Advanced >>>>>>> Save Parameters</p>		<p>Saves all Read /Write parameters to non volatile memory</p> <p>Yes : Parameters are permanently written</p> <p>No : Parameters remain changed until next power cycle</p> <p>Range <input type="text" value="No"/> - <input type="text" value="Yes"/> Default <input type="text" value="No"/> Type <input type="text" value="Read/Write"/></p>	62144
<p>Advanced Automatic Settings >>>>>>> Automatic Pedestal</p>		<p>Automatically controls the starting torque</p> <p>On : The initial torque is increased until the motor starts to rotate at a moderate speed.</p> <p>Off: The initial torque is defined by the "Start Pedestal"</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>	19840
<p>Advanced Automatic Settings >>>>>>> Automatic Ramp</p>		<p>Automatically controls the torque applied to the motor during the soft start.</p> <p>On : The torque is adjusted to suit the load.</p> <p>Off: The ramp time depends on the "Start Time" and "Current Limit"</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>	20352
<p>Advanced Automatic Settings >>>>>>> Automatic End Start (1)</p>		<p>Automatically controls the time taken for the motor to start</p> <p>On : The ramp time is shortened if the motor is at speed before the end of the "Start Time"</p> <p>Off: The ramp time depends on the "Start Time" and "Current Limit"</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>	19968
<p>Advanced Automatic Settings >>>>>>> Automatic Stop</p>		<p>Automatically controls the soft stop to suit the application. This feature is particularly useful with pumping applications</p> <p>On : If the motor is lightly loaded it decelerates rapidly to the point where the soft stop becomes useful.</p> <p>Off : The deceleration to the point where the soft stop becomes useful will be slower.</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>	20160

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Advanced	Automatic Settings	>>>>>>>>	Automatic Stop Profile	Adjusts the response of the "Automatic Stop" Increase if the motor speed doesn't drop quickly enough. When the value is set to zero the "Automatic Stop" is effectively disabled Range <input type="text" value="0 %"/> - <input type="text" value="100 %"/> Default <input type="text" value="50 %"/> Type <input type="text" value="Read/Write"/>	20608	
Advanced	Automatic Settings	>>>>>>>>	Automatic End Stop	Automatically controls the "Stop Time" On : The ramp time is shortened if the motor reaches a very low speed before the end of the "Stop Time" Off: The ramp time " depends on the "Stop Time" and "Current Limit" Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/>	20416	
Advanced	Automatic Settings	>>>>>>>>	Automatic Impact Load	Automatically controls the maximum iERS saving level. On : The maximum iERS saving level ("BackStop") is reset to maximum during each load cycle. Off : The saving potential may be reduced on applications with heavy load cycles , such as injection moulding machines. Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/>	20480	
Advanced	Automatic Settings	>>>>>>>>	Auto Smooth Stop	Automatically controls the soft stop to eliminate oscillations that can occur towards the end of the ramp On : The soft stop is adjusted when oscillations are detected. Refer to "Auto smoothing Level" Off : The soft stop is unadjusted and torque fluctuations may cause instability. This can often occur in pumping applications Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/>	20224	
Advanced	Automatic Settings	>>>>>>>>	Auto Smoothing Level	Adjusts the response of the "Automatic smoothing" Increase to provide a greater smoothing effect If there are torque fluctuations that occur during the soft stop. When set to zero the smoothing is effectively disabled. Range <input type="text" value="10 %"/> - <input type="text" value="100 %"/> Default <input type="text" value="50 %"/> Type <input type="text" value="Read/Write"/>	20672	

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Advanced	Automatic Settings	>>>>>>>>	Automatic End Start (2)	<p>Automatically controls the time taken for the motor to start</p> <p>On : The ramp time is shortened if the motor current falls below the current limit level before the end of the "Start Time".</p> <p>Off: The ramp time depends on the "Start Time" and "Current Limit"</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>	19904	
Advanced	Automatic Settings	>>>>>>>>	Automatic End Start (3)	<p>Automatically controls the time taken for the motor to start</p> <p>On : The ramp time is shortened if torque fluctuations occur before the end of the "Start Time"</p> <p>Off: The ramp time depends on the "Start Time" and "Current Limit"</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>	20032	
Advanced	Automatic Settings	>>>>>>>>	Rate End Start (3)	<p>Adjusts the response of the "Automatic End Start (3)"</p> <p>Increase to provide a greater smoothing effect If there are torque fluctuations that occur during the soft start.</p> <p>When set to zero the smoothing is effectively disabled.</p> <p>Range <input type="text" value="0 %"/> - <input type="text" value="100 %"/> Default <input type="text" value="50 %"/> Type <input type="text" value="Read/Write"/></p>	768	
Advanced	Start Settings	>>>>>>>>	Start Time	<p>Time taken to soft start from the "Start Pedestal" to the end of the start</p> <p>Normally set between 5 and 30 seconds. Actual time to get to full voltage depends on the "Start Current Limit Level".</p> <p>If set too long the motor can be at speed before the end of the time set, refer to "Automatic End Start"</p> <p>Range <input type="text" value="1 s"/> - <input type="text" value="300 s"/> Default <input type="text" value="10 s"/> Type <input type="text" value="Read/Write"/></p>	7104	
Advanced	Start Settings	>>>>>>>>	Start Pedestal	<p>Percentage of the supply voltage applied to motor at the beginning of the soft start.</p> <p>Increase to provide more torque If the load fails to break away.</p> <p>Decrease if the motor accelerates too quickly.</p> <p>Range <input type="text" value="10 %"/> - <input type="text" value="100 %"/> Default <input type="text" value="20 %"/> Type <input type="text" value="Read/Write"/></p>	704	

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Advanced	Start Settings	Start Current Limit	Start Current Limit Trip	<p>Selects trip or continue if the current limit has been active for too long</p> <p>On : The Unit will trip</p> <p>Off: The start will continue regardless of the motor current level</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	53790	
Advanced	Start Settings	Start Current Limit	Start Current Limit Level	<p>The current in Amps at which the soft Start ramp is held.</p> <p>Normally set to 350% of motor FLC. Increase if motor fails to accelerate at required rate</p> <p>The "Current Limit Level" will effect actual time to start, if set too low the motor may not accelerate to full speed.</p> <p>Range <input type="text" value="50% I-motor"/> - <input type="text" value="450% I-synergy"/> Default <input type="text" value="350% I-motor"/> Type <input type="text" value="Read/Write"/></p>	26880	
Advanced	Start Settings	Start Current Limit	Start Current Limit Time	<p>The maximum time allowed for the current limit.</p> <p>If the current limit is still active at the end of this period the Unit will either 'Trip' or 'continue'</p> <p>Range <input type="text" value="1 s"/> - <input type="text" value="600 s"/> Default <input type="text" value="30 s"/> Type <input type="text" value="Read/Write"/></p>	26944	
Advanced	Start Settings	Kick Start	Kick Start	<p>Applies a short duration torque pulse to dislodge 'sticky' loads</p> <p>On : The torque pulse is applied at start-up, when complete the torque drops to the "Start Pedestal"</p> <p>Off: The initial starting torque is defined by the "Start Pedestal"</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>	320	
Advanced	Start Settings	Kick Start	Kick Start Time	<p>Time that the torque pulse is applied to load</p> <p>Increase to provide more torque If the load fails to break away.</p> <p>Decrease if the motor accelerates too quickly.</p> <p>Range <input type="text" value="10 ms"/> - <input type="text" value="2000 ms"/> Default <input type="text" value="100 ms"/> Type <input type="text" value="Read/Write"/></p>	7040	

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Advanced	Start Settings	Kick Start	Kick Start Pedestal	Percentage of the supply voltage applied to the motor during the 'kick' period Increase to provide more torque If the load fails to break away. Decrease if the motor accelerates too quickly. Range <input type="text" value="30 %"/> - <input type="text" value="80 %"/> Default <input type="text" value="75 %"/> Type <input type="text" value="Read/Write"/>	640	
Advanced	Start Settings	>>>>>>>>	Contactor Delay	Time allowed for external contactors to close. Increase if contactors are driven by buffer relays or motor trips on phase loss when start signal applied Decrease if response to start signal needs to be improved Range <input type="text" value="20 ms"/> - <input type="text" value="800 ms"/> Default <input type="text" value="160 ms"/> Type <input type="text" value="Read/Write"/>	8320	
Advanced	Stop Settings	>>>>>>>>	Stop Time	The time taken to soft stop from full voltage or the iERS level to the 'Stop Pedestal' Normally set between 15 and 60 seconds. Actual time to get to 'Stop Pedestal' depends on the "Stop Current Limit Level". If set too long motor may reach zero speed before the end of the time set, refer to "Automatic End Stop" Range <input type="text" value="0 s"/> - <input type="text" value="300 s"/> Default <input type="text" value="0 s"/> Type <input type="text" value="Read/Write"/>	7296	
Advanced	Stop Settings	>>>>>>>>	Stop Pedestal	Percentage of the supply voltage applied to the motor at the end of the soft stop Increase if the motor crawls at the end of the soft stop. Decrease if a greater soft-stop effect is required at the end of the ramp. Range <input type="text" value="10 %"/> - <input type="text" value="40 %"/> Default <input type="text" value="10 %"/> Type <input type="text" value="Read/Write"/>	896	
Advanced	Stop Settings	Stop Current Limit	Stop Current Limit Trip	Selects trip or continue if the stop current limit has been active for too long On : The Unit will trip Off: The stop will continue regardless of the motor current level Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/>	53791	

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Advanced	Stop Settings	Stop Current Limit	Stop Current Limit Level	<p>The current in Amps at which the soft stop ramp is not allowed to go above.</p> <p>Normally set to 350% motor FLC. Increase if motor decelerates too rapidly.</p> <p>The current limit level will effect actual time to stop the motor.</p> <p>Range <input type="text" value="100% I-motor"/> - <input type="text" value="450% I-synergy"/> Default <input type="text" value="350% I-motor"/> Type <input type="text" value="Read/Write"/></p>	28800	
Advanced	Stop Settings	Stop Current Limit	Stop Current Limit Time	<p>The maximum time allowed for the current limit.</p> <p>If the current limit is still active at the end of this period the Unit will either trip or continue</p> <p>Range <input type="text" value="1 s"/> - <input type="text" value="300 s"/> Default <input type="text" value="10 s"/> Type <input type="text" value="Read/Write"/></p>	28864	
Advanced	Motor Protection	>>>>>>>>	Motor Current	<p>This should be set to the Full Load Current shown on the motor plate</p> <p>The overload works with multiples of the set "Motor Current" (i-motor)</p> <p>Also referred to as Motor FLA</p> <p>Range <input type="text" value="50% I-rated"/> - <input type="text" value="100% I-rated"/> Default <input type="text" value="100% I-rated"/> Type <input type="text" value="Read/Write"/></p>	25728	
Advanced	Motor Protection	>>>>>>>>	Trip Class	<p>The trip class is a numeric value that correlates the trip time with overload level. Select Trip class according to application requirements</p> <p>The trip time depends on the selected Trip Class, the duration of the overload and the level of the over current. Refer to the Motor Overload 'cold' trip curves given in the Quick Start Guide.</p> <p>When "Class 20" or "Class30" are selected the Unit current rating (i-Unit) will be reduced to a lower value (i-rated).</p> <p>Range <input type="text" value="10"/> - <input type="text" value="30"/> Default <input type="text" value="10"/> Type <input type="text" value="Read/Write"/></p>	25664	
Advanced	Motor Protection	Low Current Settings	Low Current Trip	<p>This can be used to detect if the motor is running lightly loaded.</p> <p>On : The Unit will trip. This feature is not active during soft start and soft stop.</p> <p>Off: The Unit will continue to operate regardless of motor current</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>	53787	

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Advanced	Motor Protection	Low Current Settings	Low Current Trip Level	<p>The current in Amps that will cause a trip</p> <p>A trip will occur if the motor current is less than the "Trip Level" for the "Trip Time"</p> <p>Range <input type="text" value="25% I-motor"/> - <input type="text" value="100% I-motor"/> Default <input type="text" value="25% I-motor"/> Type <input type="text" value="Read/Write"/></p>	26304	
Advanced	Motor Protection	Low Current Settings	Low Current Trip Time	<p>The trip time for the Low current trip</p> <p>A trip will occur if the motor current is less than the "Trip Level" for the "Trip Time"</p> <p>Range <input type="text" value="100 ms"/> - <input type="text" value="9000 ms"/> Default <input type="text" value="100 ms"/> Type <input type="text" value="Read/Write"/></p>	26368	
Advanced	Motor Protection	Shearpin Settings	Shearpin Trip	<p>The shearpin is an electronic equivalent of a mechanical shearpin</p> <p>On : The Unit will trip, This feature is not active during soft start and soft stop.</p> <p>Off: The Unit will continue to operate regardless of motor current level</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	53793	
Advanced	Motor Protection	Shearpin Settings	Shearpin Trip Current	<p>The current in Amps that will cause a "Shearpin Trip"</p> <p>A trip will occur if the motor current is greater than the "Trip Level" for the "Trip Time"</p> <p>Range <input type="text" value="100% I-motor"/> - <input type="text" value="450% I-synergy"/> Default <input type="text" value="450% I-synergy"/> Type <input type="text" value="Read/Write"/></p>	27584	
Advanced	Motor Protection	Shearpin Settings	Shearpin Trip Time	<p>The trip time for the Shearpin trip</p> <p>A trip will occur if the motor current is greater than the "Trip Level" for the "Trip Time"</p> <p>Range <input type="text" value="100 ms"/> - <input type="text" value="9000 ms"/> Default <input type="text" value="100 ms"/> Type <input type="text" value="Read/Write"/></p>	27648	

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Advanced	Motor Protection	Overload Settings	Overload Trip		<p>The Unit has an "Overload" function that is an electronic equivalent to a thermal overload.</p> <p>On : The Unit will trip when the "Overload" capacity (ModbusPNU 33408) exceeds 100%</p> <p>Off: The Unit will continue to operate regardless of motor current level</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	53792
Advanced	Motor Protection	Overload Settings	Overload Level		<p>Determines the level in Amps at which the overload will start.</p> <p>Normally set to 115% of the set motor current (i-motor)</p> <p>Reduce to speed up trip response</p> <p>Range <input type="text" value="50% I-motor"/> - <input type="text" value="125% I-motor"/> Default <input type="text" value="115% I-motor"/> Type <input type="text" value="Read/Write"/></p>	28224
Advanced	iERS	>>>>>>>>	iERS		<p>Enables and disables the intelligent Energy Recovery System feature (iERS).</p> <p>On : The voltage to the motor will be regulated to ensure optimum efficiency.</p> <p>Off : The feature is disabled and the motor operates at full voltage</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	21120
Advanced	iERS	>>>>>>>>	Dwell Time		<p>The time from the End of the start to the point where the iERS saving mode becomes active.</p> <p>Normally set to 5 seconds to ensure the motor is at full speed before the iERS saving becomes active</p> <p>Increase to allow time for the motor to stabilise.</p> <p>Range <input type="text" value="1 s"/> - <input type="text" value="300 s"/> Default <input type="text" value="5 s"/> Type <input type="text" value="Read/Write"/></p>	7360
Advanced	iERS	>>>>>>>>	iERS Rate		<p>Determines the rate at which the load is regulated during the iERS energy saving mode</p> <p>During periods of instability the "Current Irms" and "True Power Factor" will oscillate rapidly. Increase if the applications shows signs of instability.</p> <p>Reduce to increase the speed of response</p> <p>Range <input type="text" value="0 %"/> - <input type="text" value="100 %"/> Default <input type="text" value="25 %"/> Type <input type="text" value="Read/Write"/></p>	21184

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<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: red; color: white; padding: 5px;">Advanced</div> <div style="background-color: red; color: white; padding: 5px;">iERS</div> <div style="background-color: gray; color: white; padding: 5px;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px;">iERS Level</div> </div>		<p>Determines the maximum energy saving potential.</p> <p>Reduce if the application shows signs of instability.</p> <p>The amount of energy that can be saved may fall as the "iERS level" is reduced.</p> <p>Range <input type="text" value="0 %"/> - <input type="text" value="100 %"/> Default <input type="text" value="100 %"/> Type <input type="text" value="Read/Write"/></p>	21376
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: red; color: white; padding: 5px;">Advanced</div> <div style="background-color: red; color: white; padding: 5px;">iERS</div> <div style="background-color: gray; color: white; padding: 5px;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px;">Fixed Voltage</div> </div>		<p>User settable voltage level for power calculations</p> <p>If required can be used to improve accuracy of power calculations</p> <p>Range <input type="text" value="100 V"/> - <input type="text" value="500 V"/> Default <input type="text" value="100 V"/> Type <input type="text" value="Read/Write"/></p>	35200
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: red; color: white; padding: 5px;">Advanced</div> <div style="background-color: red; color: white; padding: 5px;">iERS</div> <div style="background-color: gray; color: white; padding: 5px;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px;">Fixed Voltage</div> </div>		<p>Selects the source for the voltage value used in the power calculations.</p> <p>on: KW, KVar and KVA are calculated using the "Fixed Voltage"</p> <p>off: KW, KVar and KVA are calculated using the internally measured voltage.</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>	35264
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: red; color: white; padding: 5px;">Advanced</div> <div style="background-color: gray; color: white; padding: 5px;">>>>>>>>></div> <div style="background-color: gray; color: white; padding: 5px;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px;">Control Method</div> </div>		<p>Local Touch Screen : Control using the button on the keypad</p> <p>User Programmable : Control using the terminals, function defined in "I/O" menu</p> <p>Two Wire Control : Control using terminals, functions fixed as shown on screen</p> <p>Three Wire Control : Control using terminals, functions fixed as shown on screen</p> <p>Modbus Network : Control via remote Modbus network or remote Keypad or Modbus TCP</p> <p>Range <input type="text" value="Local Touch Screen"/> - <input type="text" value="Modbus Network"/> Default <input type="text" value="Local Touch Screen"/> Type <input type="text" value="Read/Write"/></p>	59392
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="background-color: red; color: white; padding: 5px;">Advanced</div> <div style="background-color: red; color: white; padding: 5px;">Trip Settings</div> <div style="background-color: gray; color: white; padding: 5px;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px;">Trip Sensitivity</div> </div>		<p>Adjusts the reaction time to fault trips</p> <p>Increase "Trip Sensitivity" to slow the response to fault trips.</p> <p>Sometimes useful on sites where electrical noise is causing nuisance tripping</p> <p>This is a global setting.</p> <p>Increasing "Trip Sensitivity" will slow the response of all the trips.</p> <p>Range <input type="text" value="0 %"/> - <input type="text" value="100 %"/> Default <input type="text" value="0 %"/> Type <input type="text" value="Read/Write"/></p>	44864

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]		Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
Advanced	Trip Settings	>>>>>>>>	Cover Open Trip	53803
			<p>For safety purposes the Unit has been designed to trip if the front cover is open</p> <p>On : The Unit will trip if the front cover is open. This trip is active at all times.</p> <p>Off : The Unit will continue to operate with the cover open</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>	
Advanced	Trip Settings	>>>>>>>>	Shearpin Trip	53793
			<p>The shearpin is an electronic equivalent of a mechanical shearpin</p> <p>On : The Unit will trip, This feature is not active during soft start and soft stop.</p> <p>Off: The Unit will continue to operate regardless of motor current level</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	
Advanced	Trip Settings	>>>>>>>>	Overload Trip	53792
			<p>The Unit has an "Overload" function that is an electronic equivalent to a thermal overload.</p> <p>On : The Unit will trip when the "Overload" capacity (ModbusPNU 33408) exceeds 100%</p> <p>Off: The Unit will continue to operate regardless of motor current level</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	
Advanced	Trip Settings	>>>>>>>>	Low Current Trip	53787
			<p>This can be used to detect if the motor is running lightly loaded.</p> <p>On : The Unit will trip. This feature is not active during soft start and soft stop.</p> <p>Off: The Unit will continue to operate regardless of motor current</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>	
Advanced	Trip Settings	>>>>>>>>	Start Current Limit Trip	53790
			<p>Selects trip or continue if the current limit has been active for too long</p> <p>On : The Unit will trip</p> <p>Off: The start will continue regardless of the motor current level</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
Advanced	Trip Settings	>>>>>>>>	Stop Current Limit Trip	Selects trip or continue if the stop current limit has been active for too long On : The Unit will trip Off: The stop will continue regardless of the motor current level Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/>	53791	
Advanced	Trip Settings	>>>>>>>>	PTC Motor Thermistor Trip	A single PTC motor thermistor or set of PTC motor thermistors can be connected to the PTC terminals. On :The Unit will trip if the motor thermistor exceed its response temperature or the PTC input is open circuit Off : The Unit will continue to operate. Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/>	53794	
Advanced	Trip Settings	>>>>>>>>	L1-L2-L3 Trip	Determines if supply phase sequence is incorrect for motor rotation On : Trips if the phase sequence is L1, L2, L3. Off : The Unit will continue to operate normally Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/>	53808	
Advanced	Trip Settings	>>>>>>>>	L1-L3-L2 Trip	Determines if supply phase sequence is incorrect for motor rotation On : Trips if the phase sequence is L1, L3, L2. Off : The Unit will continue to operate normally Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/>	53807	
Advanced	Trip Settings	>>>>>>>>	Remote Start Trip	For safety reasons the Unit will trip during some operations if the remote start signal is active On : Trips if the remote start signal is active when the Unit is powered up or a reset is applied. Off : The Unit will not trip and may start unexpectedly if the start signal is accidently left active. Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/>	53804	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]			Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
Advanced	Trip Settings	>>>>>>>>	Current Sensor Trip	<p>Detects if the internal current sensors have failed or reading a very low level.</p> <p>On : The Unit will trip if the internal current sensors fail or the current measured falls to a very low level</p> <p>Off : Will continue to operate even if the sensor has failed. Measurements and overload protection may be effected</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>	53775
Advanced	Trip Settings	>>>>>>>>	Fan Trip	<p>Detects if the cooling fans have failed.</p> <p>On : The Unit trips if the cooling fans fitted to the Unit fail.</p> <p>Off : Will continue to operate and is likely to trip on a thermal trip as the heatsink will not be sufficiently cooled</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	53782
Advanced	Trip Settings	>>>>>>>>	Communications Trip	<p>Detects if the communications bus has failed or become inactive. To keep the bus active there must be at least one Modbus read or write (any PNU) during the "Timeout ms" period (ModbusPNU 15808)</p> <p>On :Communication trip enabled.</p> <p>Off : Communication trip disabled.</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	53796
Advanced	Trip Settings	>>>>>>>>	Shut Down (1)	<p>This features controls the soft stop improve stability</p> <p>On : The stop time is truncated if the motor experiences severe torque fluctuations during the soft stop</p> <p>Off : The motor will stop in the set time.</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	53769
Advanced	Trip Settings	>>>>>>>>	Shut Down (2)	<p>This features controls the soft stop improve stability</p> <p>On : The stop time is truncated if the motor experiences severe torque fluctuations during the soft stop</p> <p>Off : The motor will stop in the set time.</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	53770

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]			Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
Advanced	Trip Settings	>>>>>>>>	Thyristor Firing Trip	<p>Detects if there is a fault with one or more of the internal Thyristors or bypass relays</p> <p>On : Trips if one or more of the Thyristors / bypass relays has failed short circuit. ISOLATE SUPPLY. Check by measuring the resistance between L1 -T1, L2 -T2, L3 -T3 (Anything < 10R is assumed short circuit)</p> <p>Off : The Unit will attempt to start and run although the operation may be erratic. Operating in this mode for prolonged periods may result in SCR failure</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	53774
Advanced	Trip Settings	>>>>>>>>	Motor Side Phase Loss	<p>Detects if there is a disconnection between the Unit output and the motor</p> <p>On : Trips if there is a disconnection between the output side of the Unit and the motor</p> <p>Off : The Unit will attempt to start and run although the operation may be erratic. Operating in this mode for prolonged periods may result in SCR failure</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	53777
Advanced	Trip Settings	>>>>>>>>	Sensing Fault Trip	<p>Detects if there is a fault with operation of one or more of the internal Thyristors</p> <p>On : Trips if one or more of the Thyristors fails to turn on properly.</p> <p>Off : The Unit will attempt to start and run although the operation may be erratic. Operating in this mode for prolonged periods may result in SCR failure</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	53781
Advanced	Trip Settings	>>>>>>>>	Thermal Sensor Trip	<p>Detects if the internal temperature sensor has malfunctioned</p> <p>On : The Unit will trip if the internal temperature sensor malfunctions</p> <p>Off : The Unit will continue to operate even if the temperature sensor has malfunctioned. Operating in this mode for prolonged periods may result in SCR failure</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	53768
Advanced	Trip Settings	>>>>>>>>	External Trip	<p>Allows a trip to be forced using one of the digital inputs</p> <p>On : Trips when the programmed input is active</p> <p>Off : External Trip is disabled</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	53795

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
Advanced	Trip Settings	>>>>>>>>	Operation 3 Trip	Detects if the Control Board has failed to operate normally On : Operation 3 trip enabled. Off : Operation 3 trip disabled. Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/>	53800	
Advanced	Trip Settings	>>>>>>>>	Operation 1 Trip	Detects if the keypad Board has failed to operate normally On : Operation 1 trip enabled. Off : Operation 1 trip disabled. Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/>	53798	
Advanced	Trip Settings	>>>>>>>>	Operation 2 Trip	Detects if the logging function has failed to operate normally On : Operation 2 trip enabled. Off : Operation 2 trip disabled. Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/>	53799	
Advanced	Trip Settings	>>>>>>>>	Input Side Phase Loss	Detects if there is a disconnection between the Unit input and the supply when the motor is running. On : Trips if there is a disconnection between the input side of the Unit and the supply when the motor is running. Off : The Unit will attempt to run although the operation may be erratic. Operating in this mode for prolonged periods may result in SCR failure Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/>	53762	
Advanced	>>>>>>>>	>>>>>>>>	Firing Mode	Set to correspond with Unit connection to the Motor. Refer to connection diagrams in the Quick Start Guide. In-Line : The Unit is connected in-line with a delta or star connected motor. In-Delta : The Unit is connected inside the Delta of the motor. The iERS function is disabled Range <input type="text" value="In-Line"/> - <input type="text" value="In-Delta"/> Default <input type="text" value="In-Line"/> Type <input type="text" value="Read/Write"/>	128	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]	Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Advanced</div> <div style="background-color: gray; color: white; padding: 5px; border: 1px solid black;">>>>>>>>></div> <div style="background-color: gray; color: white; padding: 5px; border: 1px solid black;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Legacy Delta Mode</div> </div>		<p>Allows the Unit to be retro-fitted into "Delta" applications that previously used QFE / XFE (5MC)</p> <p>On : Operates in QFE / XFE (5MC) delta compatibility mode.</p> <p>Off : Operates normally. Refer to Unit Delta connection diagram in the Quick Start Guide.</p> <p>Range Off - On Default Off Type Read/Write</p>	192

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
I/O	Digital Inputs	>>>>>>>>	Digital Input Voltage	<p>The digital inputs D1-1I, D1-2I, D2-1I are designed to work with a range of control supplies 230V : 'Active high level' Input voltage must be in the range 195.5V - 253V 110V : 'Active high level' Input voltage must be in the range 93.5V - 121V 24V : 'Active high level ' input voltage must be in the range 20.4V-26.4V It is important to ensure the "Digital input Voltage" corresponds to the voltage applied to the input. Failure to do so may result in damage.</p> <p>Range <input type="text" value="230V"/> - <input type="text" value="24VDC"/> Default <input type="text" value="230V"/> Type <input type="text" value="Read/Write"/></p>	10880	
I/O	Digital Inputs	>>>>>>>>	Control Method	<p>Local Touch Screen : Control using the button on the keypad User Programmable : Control using the terminals, function defined in "I/O" menu Two Wire Control : Control using terminals, functions fixed as shown on screen Three Wire Control : Control using terminals, functions fixed as shown on screen Modbus Network : Control via remote Modbus network or remote Keypad or Modbus TCP</p> <p>Range <input type="text" value="Local Touch Screen"/> - <input type="text" value="Modbus Network"/> Default <input type="text" value="Local Touch Screen"/> Type <input type="text" value="Read/Write"/></p>	59392	
I/O	Digital Inputs	Digital Input 1 (D1-1I)	Select Function	<p>Allows the Digital input (D1-1I) to be mapped to different functions The selected function will change in proportion with the input Digital inputs can only be mapped if the "Control Method" is set to "User Programmable"</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="End of list"/> Default <input type="text" value="Start/Stop"/> Type <input type="text" value="Read/Write"/></p>	10944	
I/O	Digital Inputs	Digital Input 1 (D1-1I)	High Input = 1 Sets Value	<p>Allows the polarity of the input to be reversed On : When the input is on the selected function will be on. Off : When the input is off the selected function will be on.</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	11264	
I/O	Digital Inputs	Digital Input 2 (D1-2I)	Select Function	<p>Allows the Digital input (D1-2I) to be mapped to different functions The selected function will change in proportion with the input Digital inputs can only be mapped if the "Control Method" is set to "User Programmable"</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="End of list"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>	10945	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
I/O	Digital Inputs	Digital Input 2 (D1-2I)	High Input = 1 Sets Value	<p>Allows the polarity of the input to be reversed</p> <p>On : When the input is on the selected function will be on.</p> <p>Off : When the input is off the selected function will be on.</p> <p>Range <input type="text" value="Off - On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	11266	
I/O	Digital Inputs	Digital Input 3 (D2-1I)	Select Function	<p>Allows the Digital input (D2-1I) to be mapped to different functions</p> <p>The selected function will change in proportion with the input</p> <p>Digital inputs can only be mapped if the "Control Method" is set to "User Programmable"</p> <p>Range <input type="text" value="Off - End of list"/> Default <input type="text" value="Reset"/> Type <input type="text" value="Read/Write"/></p>	10946	
I/O	Digital Inputs	Digital Input 3 (D2-1I)	High Input = 1 Sets Value	<p>Allows the polarity of the input to be reversed</p> <p>On : When the input is on the selected function will be on.</p> <p>Off : When the input is off the selected function will be on.</p> <p>Range <input type="text" value="Off - On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	11268	
I/O	Digital Outputs	Digital Output 1 N/C(12)	Select Function	<p>Allows the Digital output (N/C (12)) to be mapped to different functions</p> <p>The output will change in proportion with the selected output</p> <p>Range <input type="text" value="Off - End of list"/> Default <input type="text" value="Error"/> Type <input type="text" value="Read/Write"/></p>	11584	
I/O	Digital Outputs	Digital Output 1 N/C(12)	High Output = 1 When Value	<p>Allows the polarity of the output to be reversed</p> <p>On : When the selected function is on the output will be on.</p> <p>Off : When the selected function is on the output is off</p> <p>Range <input type="text" value="Off - On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	11904	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
I/O	Digital Outputs	Digital Output 2 N/O(24)	Select Function	<p>Allows the Digital output (N/O (24)) to be mapped to different functions</p> <p>The output will change in proportion with the selected output</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="End of list"/> Default <input type="text" value="Error"/> Type <input type="text" value="Read/Write"/></p>	11585	
I/O	Digital Outputs	Digital Output 2 N/O(24)	High Output = 1 When Value	<p>Allows the polarity of the output to be reversed</p> <p>On : When the selected function is on the output will be on.</p> <p>Off : When the selected function is on the output is off</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	11906	
I/O	Digital Outputs	Digital Output 3 N/O(34)	Select Function	<p>Allows the Digital output (N/O (34)) to be mapped to different functions</p> <p>The output will change in proportion with the selected output</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="End of list"/> Default <input type="text" value="Running"/> Type <input type="text" value="Read/Write"/></p>	11586	
I/O	Digital Outputs	Digital Output 3 N/O(34)	High Output = 1 When Value	<p>Allows the polarity of the output to be reversed</p> <p>On : When the selected function is on the output will be on.</p> <p>Off : When the selected function is on the output is off</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	11908	
I/O	Digital Outputs	Digital Output 4 N/O(44)	Select Function	<p>Allows the Digital output (N/O (44)) to be mapped to different functions</p> <p>The output will change in proportion with the selected output</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="End of list"/> Default <input type="text" value="End Of Start"/> Type <input type="text" value="Read/Write"/></p>	11587	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
I/O	Digital Outputs	Digital Output 4 N/O(44)	High Output = 1 When Value	<p>Allows the polarity of the output to be reversed</p> <p>On : When the selected function is on the output will be on.</p> <p>Off : When the selected function is on the output is off</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="On"/> Type <input type="text" value="Read/Write"/></p>	11910	
I/O	Analogue Inputs	>>>>>>>>	Analogue Input Type	<p>Defines the function of the analogue input (AI)</p> <p>0-10V : The input voltage varies from 0-10V</p> <p>4-20mA : The input varies from 4 to 20mA</p> <p>Range <input type="text" value="0 - 10V"/> - <input type="text" value="4 - 20mA"/> Default <input type="text" value="0 - 10V"/> Type <input type="text" value="Read/Write"/></p>	9600	
I/O	Analogue Inputs	>>>>>>>>	Select Function	<p>Allows the Analogue input to be mapped to different functions</p> <p>The selected function will change in proportion with the input</p> <p>By default the function will be at its maximum when the input is at it maximum</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="End of list"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>	9664	
I/O	Analogue Inputs	>>>>>>>>	Scaling Level	<p>Allows the selected function to be scaled</p> <p>The selected function will change in proportion with the input</p> <p>The function will be at its "Scaling Level" when the input is at its maximum</p> <p>Range <input type="text" value="0"/> - <input type="text" value="Max value"/> Default <input type="text" value="Max value"/> Type <input type="text" value="Read/Write"/></p>	9728	
I/O	Analogue Outputs	>>>>>>>>	Analogue Output Type	<p>Defines the physical function of the analogue output (AO)</p> <p>0-10V : The output voltage varies from 0 to 10V</p> <p>4-20mA : The output current varies from 4 to 20mA</p> <p>Range <input type="text" value="0 - 10V"/> - <input type="text" value="4 - 20mA"/> Default <input type="text" value="0 - 10V"/> Type <input type="text" value="Read/Write"/></p>	8960	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]		Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
I/O	Analogue Outputs	>>>>>>>>	Select Function	9024
<p>Allows the Analogue output to be mapped to different PNU functions</p> <p>The output will change in proportion with the selected function</p> <p>By default the output will be at a maximum when the selected function equals its maximum value</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="End of list"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>				
I/O	Analogue Outputs	>>>>>>>>	Scaling Level	9088
<p>Allows the selected function to be scaled</p> <p>The output will change in proportion with the selected function</p> <p>The output will be at a maximum when the selected function equals the "Scaling Level"</p> <p>Range <input type="text" value="0"/> - <input type="text" value="Max value"/> Default <input type="text" value="0"/> Type <input type="text" value="Read/Write"/></p>				
I/O	>>>>>>>>	>>>>>>>>	PTC Motor Thermistor Trip	53794
<p>A single PTC motor thermistor or set of PTC motor thermistors can be connected to the PTC terminals.</p> <p>On :The Unit will trip if the motor thermistor exceed its response temperature or the PTC input is open circuit</p> <p>Off : The Unit will continue to operate.</p> <p>Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/></p>				




SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]	Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
<p>Monitor</p> <p>Monitor >>>>>>>> >>>>>>>> Line Frequency</p>		<p>The frequency of the 3-phase supply</p> <p>Range <input type="text" value="45 Hz"/> - <input type="text" value="65 Hz"/> Default <input type="text" value="- Hz"/> Type <input type="text" value="Read Only"/></p>	32000
<p>Monitor >>>>>>>> >>>>>>>> Phase Rotation</p>		<p>Indicates the phase sequence of the incoming supply.</p> <p>RYB = L1, L2, L3 RBY = L1, L3, L2</p> <p>Range <input type="text" value="L1-L2-L3"/> - <input type="text" value="L1-L3-L2"/> Default <input type="text" value="L1-L2-L3"/> Type <input type="text" value="Read Only"/></p>	32064
<p>Monitor >>>>>>>> >>>>>>>> I1</p>		<p>The RMS current on phase L1</p> <p>Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/></p>	33536
<p>Monitor >>>>>>>> >>>>>>>> I2</p>		<p>The RMS current on phase L2</p> <p>Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/></p>	33538
<p>Monitor >>>>>>>> >>>>>>>> I3</p>		<p>The RMS current on phase L3</p> <p>Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/></p>	33540






SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
Monitor	>>>>>>>>	>>>>>>>>	Current Irms	<p>The RMS motor current</p> <p>This is the maximum of the 3 phases. This value is used for the overload and power calculations</p> <p>Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/></p>	32896	
Monitor	>>>>>>>>	>>>>>>>>	True Power Factor	<p>The True Power Factor</p> <p>The True Power Factor = (Displacement Power Factor x Distortion Power Factor)</p> <p>Range <input type="text" value="0"/> - <input type="text" value="1"/> Default <input type="text" value="0"/> Type <input type="text" value="Read Only"/></p>	33024	
Monitor	>>>>>>>>	>>>>>>>>	True Power P	<p>Total true power</p> <p>This is an addition of the 3 phases</p> <p>Range <input type="text" value="0 kW"/> - <input type="text" value="10000 kW"/> Default <input type="text" value="0 kW"/> Type <input type="text" value="Read Only"/></p>	34688	
Monitor	>>>>>>>>	>>>>>>>>	Apparent Power S	<p>Total Apparent Power</p> <p>This is an addition of the 3 phases</p> <p>Range <input type="text" value="0 kVA"/> - <input type="text" value="10000 kVA"/> Default <input type="text" value="0 kVA"/> Type <input type="text" value="Read Only"/></p>	34816	
Monitor	>>>>>>>>	>>>>>>>>	Reactive Power Q	<p>Total Reactive power</p> <p>This is an addition of the 3 phases</p> <p>Range <input type="text" value="0 kvar"/> - <input type="text" value="10000 kvar"/> Default <input type="text" value="0 kvar"/> Type <input type="text" value="Read Only"/></p>	34944	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
Monitor	>>>>>>>>	>>>>>>>>	iERS Saving Level	<p>Indicates the level of potential saving</p> <p>100% indicates that Unit is saving at its maximum level</p> <p>Range <input type="text" value="0 %"/> - <input type="text" value="100 %"/> Default <input type="text" value="0 %"/> Type <input type="text" value="Read Only"/></p>	35008	
Monitor	>>>>>>>>	>>>>>>>>	Delay Angle	<p>Internal firing delay angle in Degrees</p> <p>Displayed for diagnostic purposes</p> <p>Range <input type="text" value="0 Degrees"/> - <input type="text" value="60 Degrees"/> Default <input type="text" value="0 Degrees"/> Type <input type="text" value="Read Only"/></p>	22400	
Monitor	>>>>>>>>	>>>>>>>>	BackStop	<p>The maximum possible Delay angle for the current iERS saving phase</p> <p>Displayed for diagnostic purposes</p> <p>May decrease during heavy load periods or instability</p> <p>Range <input type="text" value="0 Degrees"/> - <input type="text" value="55 Degrees"/> Default <input type="text" value="0 Degrees"/> Type <input type="text" value="Read Only"/></p>	23040	
Monitor	>>>>>>>>	>>>>>>>>	Delay Max	<p>The maximum possible delay for iERS saving</p> <p>Displayed for diagnostic purposes</p> <p>Range <input type="text" value="0 Degrees"/> - <input type="text" value="55 Degrees"/> Default <input type="text" value="0 Degrees"/> Type <input type="text" value="Read Only"/></p>	22464	
Monitor	>>>>>>>>	>>>>>>>>	Pres PF Degrees	<p>The Present Power Factor used by the iERS saving function</p> <p>This is the actual Power Factor for the iERS saving function.</p> <p>The "Delay" is constantly adjusted to minimise the control loop error between "Pres PF Degrees" and "Ref PF Degrees"</p> <p>The parameter displays the displacement part of the True Power Factor and is used for diagnostic purposes.</p> <p>Range <input type="text" value="0 Degrees"/> - <input type="text" value="90 Degrees"/> Default <input type="text" value="0 Degrees"/> Type <input type="text" value="Read Only"/></p>	21824	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
Monitor	>>>>>>>>	>>>>>>>>	Ref PF Degrees	<p>The Reference Power Factor used by the iERS saving function</p> <p>This is the target Power Factor for the iERS saving function. The parameter will change dynamically dependant on motor operation</p> <p>The parameter displays the displacement part of the True Power Factor and is used for diagnostic purposes.</p> <p>Range <input type="text" value="0 Degrees"/> - <input type="text" value="90 Degrees"/> Default <input type="text" value="0 Degrees"/> Type <input type="text" value="Read Only"/></p>	21760	
Monitor	>>>>>>>>	>>>>>>>>	Start Saving Level	<p>The current in Amps at which the iERS is enabled or disabled.</p> <p>The iERS function is active when the motor current is less than the "Start Saving Level"</p> <p>When the iERS function is disabled internal bypass relays close to improve efficiency.</p> <p>Range <input type="text" value="50% I-motor"/> - <input type="text" value="80% I-motor"/> Default <input type="text" value="80% I-motor"/> Type <input type="text" value="Read Only"/></p>	21320	
Monitor	>>>>>>>>	>>>>>>>>	Last Peak Current	<p>Displays the peak current of the last successful start.</p> <p>Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/></p>	38400	
Monitor	>>>>>>>>	>>>>>>>>	HeatSink Temp	<p>The temperature of the internal Unit heatsink.</p> <p>The Unit will trip when the heatsink temperature exceeds 80°C.</p> <p>The internal cooling fans will turn on if this temperature exceeds 40°C</p> <p>Range <input type="text" value="-20 °C"/> - <input type="text" value="80 °C"/> Default <input type="text" value="°C"/> Type <input type="text" value="Read Only"/></p>	36544	
Monitor	>>>>>>>>	>>>>>>>>	Motor Thermistor	<p>Indicates the state of the Unit PTC input, designed for single, double or triple PTC in series PTC thermistor standards DIN44081 / EN60738-1 apply (< 300R @ 25°C, typically 4K @ nominal temperature)</p> <p>The value indicated is a not in degrees Celsius but is an internal representation.</p> <p>At 25°C the value displayed should be less than 100 and the Unit trips when value > 400 (open circuit = 1024)</p> <p>The value will increase rapidly when the motor thermistors approach their nominal temperature.</p> <p>If thermistors are connected the "Thermistor trip" should be turned "on"</p> <p>Range <input type="text" value="0"/> - <input type="text" value="1024"/> Default <input type="text" value="1024"/> Type <input type="text" value="Read Only"/></p>	10432	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]		Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
Monitor	>>>>>>>>	>>>>>>>>	Overload	33408
			<p>The Unit has an "Overload" function that is an electronic equivalent to a thermal overload. "Overload" displays the overload capacity which is a measure of how close the Unit to tripping on "Overload Trip" When "Current Irms" is greater than the "Overload Level" the "Overload" increases in accordance with the "Trip Class". When "Current Irms" is less than "Overload Level" the "Overload" decreases exponentially (if greater than 50%) When the "Overload" reaches 100% the Unit will trip. During situations when (i-motor) is equal to (i-Unit) the overload will indicate 50%</p> <p>Range <input type="text" value="0 %"/> - <input type="text" value="100 %"/> Default <input type="text" value="0 %"/> Type <input type="text" value="Read Only"/></p>	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]	Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
<p>Log</p> 		<p>Displays the last Fault trip</p> <p>Range <input type="text" value="0"/> - <input type="text" value="65535"/> Default <input type="text" value="0"/> Type <input type="text" value="Read Only"/></p>	60608
		<p>Displays the last Fault trip -1</p> <p>Range <input type="text" value="0"/> - <input type="text" value="65535"/> Default <input type="text" value="0"/> Type <input type="text" value="Read Only"/></p>	60609
		<p>Displays the last Fault trip -2</p> <p>Range <input type="text" value="0"/> - <input type="text" value="65535"/> Default <input type="text" value="0"/> Type <input type="text" value="Read Only"/></p>	60610
		<p>Displays the last Fault trip -3</p> <p>Range <input type="text" value="0"/> - <input type="text" value="65535"/> Default <input type="text" value="0"/> Type <input type="text" value="Read Only"/></p>	60611
		<p>Displays the last Fault trip -4</p> <p>Range <input type="text" value="0"/> - <input type="text" value="65535"/> Default <input type="text" value="0"/> Type <input type="text" value="Read Only"/></p>	60612

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]	Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
		Displays the last Fault trip -5 Range <input type="text" value="0"/> - <input type="text" value="65535"/> Default <input type="text" value="0"/> Type <input type="text" value="Read Only"/>	60613
		Displays the last Fault trip -6 Range <input type="text" value="0"/> - <input type="text" value="65535"/> Default <input type="text" value="0"/> Type <input type="text" value="Read Only"/>	60614
		Displays the last Fault trip -7 Range <input type="text" value="0"/> - <input type="text" value="65535"/> Default <input type="text" value="0"/> Type <input type="text" value="Read Only"/>	60615
		Displays the last Fault trip -8 Range <input type="text" value="0"/> - <input type="text" value="65535"/> Default <input type="text" value="0"/> Type <input type="text" value="Read Only"/>	60616
		Displays the last Fault trip -9 Range <input type="text" value="0"/> - <input type="text" value="65535"/> Default <input type="text" value="0"/> Type <input type="text" value="Read Only"/>	60617

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
Log	Trip Log	Trip Code Descriptions	101 Input Side Phase Loss	<p>Phase L1 missing at the instant of start up.</p> <p>The L1 phase is either missing or at a very low level</p> <p>Check all incoming connections. If a main contactor is being controlled by a digital output set to "Running" check contactor delay is sufficient</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="text" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	102 Input Side Phase Loss	<p>Phase L2 missing at the instant of start up</p> <p>The L2 phase is either missing or at a very low level</p> <p>Check all incoming connections. If a main contactor is being controlled by a digital output set to "Running" check contactor delay is sufficient</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="text" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	103 Input Side Phase Loss	<p>Phase L3 missing at the instant of start up</p> <p>The L3 phase is either missing or at a very low level</p> <p>Check all incoming connections. If a main contactor is being controlled by a digital output set to "Running" check contactor delay is sufficient</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="text" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	104 - 117 Input Side Phase Loss	<p>Any or all phases missing when the motor is being controlled</p> <p>L1 phase, L2 phase or L3 phase are missing or at a very low level.</p> <p>Check all incoming connections. Check any fuses / breakers incorporated in the power circuit</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="text" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	201 Maximum Temp. Exceeded	<p>Internal heatsink temperature has exceeded 90°C</p> <p>It is possible the Unit is operating outside specified limits.</p> <p>Check enclosure ventilation and airflow around the Unit. If the unit trips immediately the internal temperature sensor could be faulty.</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="text" value="Read Only"/></p>		

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
Log	Trip Log	Trip Code Descriptions	208 Thermal Sensor Trip	<p>Thermal sensor Failure</p> <p>The internal temperature sensor has failed</p> <p>Contact the supplier</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	301-308 Thyristor Firing Trip	<p>One or more of the internal control thyristors (SCRs) have failed to turn on properly. (In-Line "Firing Mode")</p> <p>The Unit has detected that the SCRs are not operating as expected.</p> <p>Check all incoming and outgoing connections.</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	350-358 Thyristor Firing Trip	<p>One or more of the internal control thyristors (SCRs) have failed to turn on properly. (Delta "Firing Mode")</p> <p>The Unit has detected that the SCRs are not operating as expected.</p> <p>Check all incoming and outgoing connections.</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	401 Motor Side Phase Loss	<p>One or all of the phases are missing on the motor side during the instant of start up</p> <p>T1 phase, T2 phase or T3 phase are missing or at a very low level.</p> <p>Check that the motor is connected to T1, T2 and T3. Ensure any disconnecting device between the Unit and the motor is closed at the instant of start up.</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	402-403 Motor Side Phase Loss	<p>One or all of the phases are missing on the motor side during the instant of start up when the motor being controlled</p> <p>T1 phase, T2 phase or T3 phase are missing or at a very low level.</p> <p>Check all incoming and outgoing connections.</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
Log	Trip Log	Trip Code Descriptions	601 Control Voltage Too Low	<p>The internal control supply of the Unit level has fallen to a low level</p> <p>Can be caused by a weak 24VDC control supply.</p> <p>Ensure 24VDC supply meets the requirements specified in the Quick Start Guide.</p> <p>Range <input type="text" value="-"/> Default <input type="text" value=""/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	701-710 Sensing Fault Trip	<p>One or more of the internal control thyristors (SCRs) have failed to turn on properly.</p> <p>The Unit has detected that the SCRs are not operating as expected.</p> <p>Check connections all incoming and outgoing connections.</p> <p>Range <input type="text" value="-"/> Default <input type="text" value=""/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	801-802 Fan Problem	<p>One or more of the internal cooling fans has failed</p> <p>To ensure the heatsink is cooled sufficiently the Unit Will trip if the fans fail to operate</p> <p>Check Unit fans for signs of damage or contamination</p> <p>Range <input type="text" value="-"/> Default <input type="text" value=""/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	1001 Short Circuit Thyristor	<p>One or more of the internal control thyristors (SCRs) have failed short circuit</p> <p>The Unit has detected that the SCRs are not operating as expected.</p> <p>ISOLATE SUPPLY.</p> <p>Check by measuring the resistance between L1 -T1, L2 -T2, L3 -T3 (Anything < 10R is assumed short circuit)</p> <p>Range <input type="text" value="-"/> Default <input type="text" value=""/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	1101 Low Current Trip	<p>The motor current has been lower than the low trip level for the low trip time</p> <p>This trip is not active during soft start and soft stop and is "off" by default.</p> <p>If the low current trip is not required turn "off" in "Trip Settings".</p> <p>Range <input type="text" value="-"/> Default <input type="text" value=""/> Type <input type="button" value="Read Only"/></p>		

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
Log	Trip Log	Trip Code Descriptions	1201 Current Limit Timeout Trip	<p>The motor has been held in current limit longer than the "Start current limit Time"</p> <p>It is likely that the current limit level has been set too low for the application.</p> <p>Increase the current limit level or timeout period.</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	1202 Current Limit Timeout Trip	<p>The motor has been held in current limit longer than the "Stop current limit Time"</p> <p>It is likely that the current limit level has been set too low for the application.</p> <p>Increase the current limit level or timeout period.</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	1301 Overload Trip	<p>The "Overload" has exceeded 100%</p> <p>The Unit is attempting to start an application that is outside its capacity or it is starting too often.</p> <p>Refer to the overload trip curves to determine whether the Unit has been sized correctly.</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	1302 Overload Trip	<p>The motor current has exceeded 475% (i-Unit) for a time greater than 250ms</p> <p>The Unit is attempting to start an application that is outside its capacity with a "high current limit level" set</p> <p>Refer to the overload trip curves to determine whether the Unit has been sized correctly , and check current limit level.</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	1401 Shearpin Trip	<p>The motor current has been higher than the "Shearpin Trip Level" for the trip time.</p> <p>This trip is not active during soft start and soft stop and is "off" by default.</p> <p>If Shearpin trip is not required turn "off" in "Trip Settings".</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
Log	Trip Log	Trip Code Descriptions	1501 PTC Thermistor Trip	<p>The PTC thermistor value has exceed the trip level.</p> <p>The PTC thermistor connected to the PTC input has exceeded it response temperature or the PTC input is open circuit.</p> <p>If the PTC TRIP is not required turn "off" in "Trip Settings".</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	1601 External Trip	<p>External Trip</p> <p>The input programmed to External Trip is active</p> <p>If the External trip is not required turn "off" in "Trip settings"</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	1701 Communications Trip	<p>Communications failure</p> <p>The command or status PNU has not ben polled in the time set in the "Timeout" period</p> <p>If the communication trip is disabled the Unit cannot be stopped in the communications fail</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	1801-1802 Bypass Relay Trip	<p>One or more of the internal bypass relays has failed to close</p> <p>The internal bypass relay has failed or the control supply is to weak.</p> <p>Ensure 24VDC supply meets the requirements specified in the Quick Start Guide.</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	1803 Bypass Relay Trip	<p>One or more of the internal bypass relays has failed to open</p> <p>The internal bypass relay has failed or the control supply is too weak.</p> <p>Ensure 24VDC supply meets the requirements specified in the Quick Start Guide.</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
Log	Trip Log	Trip Code Descriptions	1901 Cover Open, Close to Enable Motor Start	<p>The Unit cover is open</p> <p>The cover is open or not closed properly</p> <p>Close Cover, or if Cover trip is not required turn off in "Trip Settings"</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	2001-2003 Remote Start is Enabled	<p>The remote start signal is active.</p> <p>The remote start signal was active during power up or Reset or Parameter Load.</p> <p>Turn off remote, or if Remote On trip is not required turn "off" in "Trip Settings"</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	2101 Rotation L1 L2 L3 Trip	<p>The input phase rotation is RYB (L1, L2,L3)</p> <p>The phase rotation is opposite to that required.</p> <p>Change phase rotation, or if "RYB" trip is not required turn "off" in trip settings.</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	2102 Rotation L1 L3 L2 Trip	<p>The input phase rotation is RBY (L1, L3,L2)</p> <p>The phase rotation is opposite to that required.</p> <p>Change phase rotation, or if "RBY" trip is not required turn "off" in trip settings.</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	2201-2299 2701-2799 MPU Trip	<p>Internal Unit Failure</p> <p>The Unit has failed internally and is unable to recover automatically.</p> <p>Cycle the control supply. If the fault is not cleared then contact the supplier</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
Log	Trip Log	Trip Code Descriptions	2301-2303 Current Sensor Trip	<p>Current sensor failure</p> <p>One or more of the internal sensors used to measure current has failed or is reading a low value.</p> <p>Check the connections to the supply and motor as disconnection will result in a zero current reading. Check the plate FLA of the motor being controlled is at least 25% of the "i-motor" rating</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	2401-2499 Operation 3 Trip	<p>Fail Safe operation</p> <p>A process associated with the Control Board has been affected and is unable to recover automatically</p> <p>The trip MUST be reset by either the digital input, keypad or bus command depending on the control method set. This trip is a special case and it is NOT possible to reset this trip by cycling the control supply</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	2501-2599 Operation 1 Trip	<p>Fail Safe operation</p> <p>A process associated with the Keypad board has been affected and is unable to recover automatically</p> <p>The trip can be reset by either the digital input, keypad or bus command depending on the control method set. It is also possible to reset this trip by cycling the control supply</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	Trip Code Descriptions	2601-2699 Operation 2 Trip	<p>Fail Safe operation</p> <p>A process associated with the Logging function has been affected and is unable to recover automatically</p> <p>The trip can be reset by either the digital input, keypad or bus command depending on the control method set. It is also possible to reset this trip by cycling the control supply</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="button" value="Read Only"/></p>		
Log	Trip Log	>>>>>>>>	Last Peak Current	<p>Displays the peak current of the last successful start.</p> <p>Range <input type="text" value="0 A - 10000 A"/> Default <input type="text" value="0 A"/> Type <input type="button" value="Read Only"/></p>	38400	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]		Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
Log	Trip Log	>>>>>>>>	Last peak start current -1	38402
			Displays the peak current of the last successful start -1	
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak start current -2	38404
			Displays the peak current of the last successful start -2	
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak start current -3	38406
			Displays the peak current of the last successful start -3	
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak start current -4	38408
			Displays the peak current of the last successful start -4	
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak start current -5	38410
			Displays the peak current of the last successful start -5	
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]		Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
Log	Trip Log	>>>>>>>>	Last peak start current -6	38412
			Displays the peak current of the last successful start -6	
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak start current -7	38414
			Displays the peak current of the last successful start -7	
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak start current -8	38416
			Displays the peak current of the last successful start -8	
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak start current -9	38418
			Displays the peak current of the last successful start -9	
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak stop current	39040
			Displays the peak current of the last successful stop	
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]		Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
Log	Trip Log	>>>>>>>>	Last peak stop current -1	39042
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak stop current -2	39044
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak stop current -3	39046
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak stop current -4	39048
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak stop current -5	39050
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	

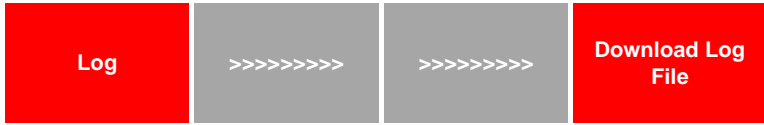
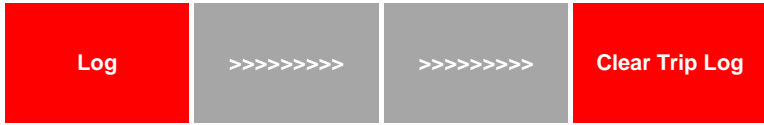
SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]		Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
Log	Trip Log	>>>>>>>>	Last peak stop current -6	39052
			Displays the peak current of the last successful stop -6	
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak stop current -7	39054
			Displays the peak current of the last successful stop -7	
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak stop current -8	39056
			Displays the peak current of the last successful stop -8	
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last peak stop current -9	39058
			Displays the peak current of the last successful stop -9	
			Range <input type="text" value="0 A"/> - <input type="text" value="10000 A"/> Default <input type="text" value="0 A"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last temperature	39680
			Displays the heatsink temperature at the end of the last successful start	
			Range <input type="text" value="-20 °C"/> - <input type="text" value="80 °C"/> Default <input type="text" value="°C"/> Type <input type="text" value="Read Only"/>	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]		Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
Log	Trip Log	>>>>>>>>	Last temperature - 1	39681
			Displays the heatsink temperature at the end of the last successful start -1	
			Range <input type="text" value="-20 °C"/> - <input type="text" value="80 °C"/> Default <input type="text" value="°C"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last temperature - 2	39682
			Displays the heatsink temperature at the end of the last successful start -2	
			Range <input type="text" value="-20 °C"/> - <input type="text" value="80 °C"/> Default <input type="text" value="°C"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last temperature - 3	39683
			Displays the heatsink temperature at the end of the last successful start-3	
			Range <input type="text" value="-20 °C"/> - <input type="text" value="80 °C"/> Default <input type="text" value="°C"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last temperature - 4	39684
			Displays the heatsink temperature at the end of the last successful start-4	
			Range <input type="text" value="-20 °C"/> - <input type="text" value="80 °C"/> Default <input type="text" value="°C"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last temperature - 5	39685
			Displays the heatsink temperature at the end of the last successful start-5	
			Range <input type="text" value="-20 °C"/> - <input type="text" value="80 °C"/> Default <input type="text" value="°C"/> Type <input type="text" value="Read Only"/>	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]		Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
Log	Trip Log	>>>>>>>>	Last temperature - 6	39686
			Displays the heatsink temperature at the end of the last successful start-6	
			Range <input type="text" value="-20 °C"/> - <input type="text" value="80 °C"/> Default <input type="text" value="°C"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last temperature - 7	39687
			Displays the heatsink temperature at the end of the last successful start-7	
			Range <input type="text" value="-20 °C"/> - <input type="text" value="80 °C"/> Default <input type="text" value="°C"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last temperature - 8	39688
			Displays the heatsink temperature at the end of the last successful start-8	
			Range <input type="text" value="-20 °C"/> - <input type="text" value="80 °C"/> Default <input type="text" value="°C"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last temperature - 9	39689
			Displays the heatsink temperature at the end of the last successful start-9	
			Range <input type="text" value="-20 °C"/> - <input type="text" value="80 °C"/> Default <input type="text" value="°C"/> Type <input type="text" value="Read Only"/>	
Log	Trip Log	>>>>>>>>	Last overload	40320
			Displays the overload level at the end of the last successful start	
			Range <input type="text" value="0 %"/> - <input type="text" value="100 %"/> Default <input type="text" value="0 %"/> Type <input type="text" value="Read Only"/>	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]	Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Log</div> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Trip Log</div> <div style="background-color: gray; color: white; padding: 5px; border: 1px solid black;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Last overload-1</div> </div>		<p>Displays the overload level at the end of the last successful start -1</p> <p>Range <input style="width: 100px;" type="text" value="0 % - 100 %"/> Default <input style="width: 50px;" type="text" value="0 %"/> Type <input style="width: 50px;" type="text" value="Read Only"/></p>	40321
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Log</div> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Trip Log</div> <div style="background-color: gray; color: white; padding: 5px; border: 1px solid black;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Last overload-2</div> </div>		<p>Displays the overload level at the end of the last successful start -2</p> <p>Range <input style="width: 100px;" type="text" value="0 % - 100 %"/> Default <input style="width: 50px;" type="text" value="0 %"/> Type <input style="width: 50px;" type="text" value="Read Only"/></p>	40322
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Log</div> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Trip Log</div> <div style="background-color: gray; color: white; padding: 5px; border: 1px solid black;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Last overload-3</div> </div>		<p>Displays the overload level at the end of the last successful start -3</p> <p>Range <input style="width: 100px;" type="text" value="0 % - 100 %"/> Default <input style="width: 50px;" type="text" value="0 %"/> Type <input style="width: 50px;" type="text" value="Read Only"/></p>	40323
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Log</div> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Trip Log</div> <div style="background-color: gray; color: white; padding: 5px; border: 1px solid black;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Last overload-4</div> </div>		<p>Displays the overload level at the end of the last successful start -4</p> <p>Range <input style="width: 100px;" type="text" value="0 % - 100 %"/> Default <input style="width: 50px;" type="text" value="0 %"/> Type <input style="width: 50px;" type="text" value="Read Only"/></p>	40324
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Log</div> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Trip Log</div> <div style="background-color: gray; color: white; padding: 5px; border: 1px solid black;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px; border: 1px solid black;">Last overload-5</div> </div>		<p>Displays the overload level at the end of the last successful start -5</p> <p>Range <input style="width: 100px;" type="text" value="0 % - 100 %"/> Default <input style="width: 50px;" type="text" value="0 %"/> Type <input style="width: 50px;" type="text" value="Read Only"/></p>	40325

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]	Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 5px;">Log</div> <div style="background-color: red; color: white; padding: 5px;">Trip Log</div> <div style="background-color: gray; color: white; padding: 5px;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px;">Last overload-6</div> </div>		Displays the overload level at the end of the last successful start -6 Range <input type="text" value="0 %"/> - <input type="text" value="100 %"/> Default <input type="text" value="0 %"/> Type <input type="text" value="Read Only"/>	40326
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 5px;">Log</div> <div style="background-color: red; color: white; padding: 5px;">Trip Log</div> <div style="background-color: gray; color: white; padding: 5px;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px;">Last overload-7</div> </div>		Displays the overload level at the end of the last successful start -7 Range <input type="text" value="0 %"/> - <input type="text" value="100 %"/> Default <input type="text" value="0 %"/> Type <input type="text" value="Read Only"/>	40327
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 5px;">Log</div> <div style="background-color: red; color: white; padding: 5px;">Trip Log</div> <div style="background-color: gray; color: white; padding: 5px;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px;">Last overload-8</div> </div>		Displays the overload level at the end of the last successful start -8 Range <input type="text" value="0 %"/> - <input type="text" value="100 %"/> Default <input type="text" value="0 %"/> Type <input type="text" value="Read Only"/>	40328
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 5px;">Log</div> <div style="background-color: red; color: white; padding: 5px;">Trip Log</div> <div style="background-color: gray; color: white; padding: 5px;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px;">Last overload-9</div> </div>		Displays the overload level at the end of the last successful start -9 Range <input type="text" value="0 %"/> - <input type="text" value="100 %"/> Default <input type="text" value="0 %"/> Type <input type="text" value="Read Only"/>	40329
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="background-color: red; color: white; padding: 5px;">Log</div> <div style="background-color: red; color: white; padding: 5px;">Totals Log</div> <div style="background-color: gray; color: white; padding: 5px;">>>>>>>>></div> <div style="background-color: red; color: white; padding: 5px;">Number of Starts</div> </div>		The total number of successful starts Range <input type="text" value="0"/> - <input type="text" value="4294836225"/> Default <input type="text" value="0"/> Type <input type="text" value="Read Only"/>	35840

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]	Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
		<p>Download the full log file on to the USB stick</p> <p>The Unit logs several parameters during normal and fault conditions</p> <p>Data is stored in CSV format. Please send all downloaded files to Fairford on request</p> <p>Range <input type="text" value="-"/> Default <input type="text"/> Type <input type="text" value="Read/Write"/></p>	
		<p>Deletes all of the history in the Trip Log</p> <p>Range <input type="text" value="No - Yes"/> Default <input type="text" value="No"/> Type <input type="text" value="Read/Write"/></p>	62081

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]		Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
<p>Device</p> <p>Device >>>>>>>> >>>>>>>> Update Firmware</p>			<p>Used to upgrade to the latest version of software using a USB stick</p> <p>Details for the upgrading process are supplied with the updated version of software</p> <p>Range <input type="text" value="-"/> Default <input type="text" value=""/> Type <input type="text" value="Read/Write"/></p>	
<p>Device >>>>>>>> >>>>>>>> Date</p>			<p>Enter current date</p> <p>Date format can be set to either dd/mm/yyyy or mm/dd/yyyy , refer to "Date format" parameter</p> <p>Range <input type="text" value="-"/> Default <input type="text" value=""/> Type <input type="text" value="Read/Write"/></p>	
<p>Device >>>>>>>> >>>>>>>> Time</p>			<p>Allows the time to be changed to 'local' time</p> <p>By default the time is set to GMT</p> <p>Range <input type="text" value="- hh:mm:ss - - hh:mm:ss"/> Default <input type="text" value="GMT time hh:mm:ss"/> Type <input type="text" value="Read/Write"/></p>	14720
<p>Device >>>>>>>> >>>>>>>> Language</p>			<p>Selects the display language for the keypad</p> <p>Enter the required language from the displayed list</p> <p>Range <input type="text" value="English - End of list"/> Default <input type="text" value="English"/> Type <input type="text" value="Read/Write"/></p>	13376
<p>Device >>>>>>>> >>>>>>>> Passcode</p>			<p>Stops unauthorised access to read/ write parameters</p> <p>For the passcode be active the "Screen lock" must be turned on</p> <p>Range <input type="text" value="0 - Max Value"/> Default <input type="text" value="0"/> Type <input type="text" value="Read/Write"/></p>	12864

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
Device	>>>>>>>>	>>>>>>>>	Backlight Timeout	Time for backlight on display After the period set the back light on the screen will turn off To reactivate touch screen anywhere. To disable set to 0 Range <input type="text" value="0 s"/> - <input type="text" value="3600 s"/> Default <input type="text" value="60 s"/> Type <input type="text" value="Read/Write"/>	14208	
Device	Networks	Modbus Network Settings	Address	Sets the Modbus station number Range <input type="text" value="1"/> - <input type="text" value="32"/> Default <input type="text" value="1"/> Type <input type="text" value="Read/Write"/>	16000	
Device	Networks	Modbus Network Settings	Baud Rate	Sets the serial communications baud rate The available baud rates are 9600, 19200, 38400, 57600, 115200 Range <input type="text" value="9600"/> - <input type="text" value="115200"/> Default <input type="text" value="19200"/> Type <input type="text" value="Read/Write"/>	16064	
Device	Networks	Modbus Network Settings	Parity	Sets the serial communications parity bit The available parity options are None, Even and Odd Also sets the stop bits. No parity uses 2 stop bits, odd/even parity uses 1 stop bit Range <input type="text" value="None"/> - <input type="text" value="Odd"/> Default <input type="text" value="Even"/> Type <input type="text" value="Read/Write"/>	16128	
Device	Networks	Modbus Network Settings	Traffic LEDs	Allows the user to check the state of the modbus communication network. Red LED receive, Green LED Transmit. On : The Red and Green LEDs display the traffic on the Modbus communications network Off : The Red and Green LEDs display the Unit status information Range <input type="text" value="Off"/> - <input type="text" value="On"/> Default <input type="text" value="Off"/> Type <input type="text" value="Read/Write"/>	14080	

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description <small>Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current</small>	Modbus PNU
Device	Networks	>>>>>>>>	Anybus	Anybus expansion module Only active with Anybus module fitted	Range: <input type="text" value="-"/> Default: <input type="text" value=""/> Type: <input type="text" value="Read Only"/>	
Device	Networks	>>>>>>>>	Timeout ms	Communications trip Timeout period To prevent a 'Communications Trip' (If enabled) the bus must be kept active. To keep the bus active there must be at least one Modbus read or write (any PNU) during the "Timeout ms" period	Range: <input type="text" value="0 ms - 60000 ms"/> Default: <input type="text" value="5000 ms"/> Type: <input type="text" value="Read/Write"/>	15808
Device	>>>>>>>>	>>>>>>>>	Reset Defaults	Restores the Unit to the factory defaults	Range: <input type="text" value="No - Yes"/> Default: <input type="text" value="No"/> Type: <input type="text" value="Read/Write"/>	62080
Device	>>>>>>>>	>>>>>>>>	About	Gives the Model number, serial Number and current software versions The software versions are SGY1xxxxxx SGY2xxxxxx and SGY3xxxxxx.	Range: <input type="text" value="-"/> Default: <input type="text" value=""/> Type: <input type="text" value="Read Only"/>	
Device	>>>>>>>>	>>>>>>>>	Screen Lock	Stops unauthorised access to read/ write parameters	Range: <input type="text" value="Off - On"/> Default: <input type="text" value="Off"/> Type: <input type="text" value="Read/Write"/>	12992

SWI-SGY-USB-V05504 [SGY1051100 SGY2061600 SGY3023400]				Parameter	Description Text in quotes refer to a Synergy parameter or function, for example "Start Time" i-synergy = synergy Class 10 current, i-rated = synergy Class20 / Class30 current, i-motor = motor current	Modbus PNU
Device	>>>>>>>>	>>>>>>>>	Date Format	<p>Allows the date format to be changed</p> <p>dd/mm/yyyy or mm/dd/yyyy</p> <p>Range <input type="text" value="dd/mm/yyyy"/> - <input type="text" value="mm/dd/yyyy"/> Default <input type="text" value="dd/mm/yyyy"/> Type <input type="text" value="Read/Write"/></p>	13248	
Device	>>>>>>>>	>>>>>>>>	Temperature Format	<p>Selects °C or °F for displayed temperatures</p> <p>°C : All displayed temperatures are °C</p> <p>°F : All displayed temperatures are °F</p> <p>Range <input type="text" value="°C"/> - <input type="text" value="°F"/> Default <input type="text" value="°C"/> Type <input type="text" value="Read/Write"/></p>	13312	
Device	>>>>>>>>	>>>>>>>>	Parameters to USB	<p>Allows the user to save parameters</p> <p>Downloads the parameters from the Unit to the USB drive</p> <p>Data is stored in CSV format.</p> <p>Range <input type="text" value="No"/> - <input type="text" value="Yes"/> Default <input type="text" value="No"/> Type <input type="text" value="Read/Write"/></p>	62272	
Device	>>>>>>>>	>>>>>>>>	Parameters from USB	<p>Allows the user to load parameters stored on a USB flash drive</p> <p>Uploads the parameters from the USB drive to the Unit</p> <p>Data is stored in CSV format.</p> <p>Range <input type="text" value="No"/> - <input type="text" value="Yes"/> Default <input type="text" value="No"/> Type <input type="text" value="Read/Write"/></p>	62336	
Device	>>>>>>>>	>>>>>>>>	Service Code	<p>Diagnostic parameter</p> <p>For Fairford use only</p> <p>Range <input type="text" value=""/> - <input type="text" value=""/> Default <input type="text" value=""/> Type <input type="text" value=""/></p>	13120	