



Features

- Ranges: 50 tonne to 1000 tonne
- Stainless steel construction
- Wireless range up to 800m
- Environmentally sealed to IP67
- Many special versions available
- Versions available for use as





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Typical Applications

- Hydraulic press calibration
- Pile force measurement
- Structural proof testing
- Centre of gravity (module)
- Jack force measurement

CPW Wireless Stainless Steel Compression Load Cell

Description

The LCM range of wireless compression load cells are designed for general use and are suitable for use in laboratories or in permanent outdoor installations. They are built to exacting standards and there are many special options, including integral carry handles, load cap and mounting base. The standard product is constructed from stainless steel.

The unique wireless housing is manufactured from semi-aromatic polyamide plastic making the load cell far more compact and reducing the overall product weight. Located in the housing are two AAA alkaline batteries which can be easily accessed by removing the telemetry housing cover, while the internal electronics underneath remain completely sealed. The antenna is also internally mounted, protecting it from accidental damage during use and handling. The batteries are standard AAA alkaline batteries, which are readily available and low cost.

The CPW is supplied as standard without any additional wireless devices to enable greater flexibility with the configuration and ordering of the product. The CPW can be used with any of the T24 range of wireless instrumentation, whether this be for a simple display system using the T24-HS-LS, or more complex systems using multiple load cells and multiple wireless devices.

For more sophisticated systems, including datalogging or monitoring/reporting requirements, we are able to offer a robust tablet PC with installed software for use with single or multiple load cell installations. Our sales team will be happy to discuss the best wireless system configuration to suit your requirements.

The CPW series can be provided as shown in this datasheet or can be modified to meet a particular application requirement. We are always pleased to discuss any special requirements that can be accommodated.

Specification

Rated load (tonne)	50, 100, 200, 300, 500, 750, 1000
Proof load	150% of rated load
Ultimate braking load	>300% of rated load
Non-linearity	<±0.25% of rated load (typically)
Non-repeatability	<±0.05% of rated load
Transmission distance	Up to 800 metres (clear line of sight)
Battery Life	>300 hours (continuous use, with 1.2Ah batteries)
Battery (standard)	AAA Alkaline x 2 (supplied with 1.2Ah batteries)
(ATEX)	AAA L92 Lithium x 2 (supplied with 1.2Ah batteries)
Operating temperature range	-20 to +55°C (-20 to +50°C for Ex i versions)
Telemetry housing	Polyamide resin
ATEX certification details	ll 2G Ex ib llC T4 Gb
Environmental protection level	IP67

Available Options

- Special ranges and sizes
- Hazardous Area certified Intrinsically Safe (Ex i)
- Various wireless accessories available (see T24 range of wireless products) 0
- Flat top option
- Verification Standard versions
- Mounting base/Load cap 0
- Optional handles (recommended above 100 tonnes) \bigcirc

Solutions in Load Cell Technology





CPW Wireless Stainless Steel Compression Load Cell

Dimensions





4 off Tapped Holes. Thread T x Depth S

Rating (tonnes)	Part Number	н	ØB	ØD	т	S	R	Weight (kgs)	Resolution (tonnes)
50	CPW-50-D	103	50	88	M4	10	158	6.5	0.05
100	CPW-100-D	153	70	100	M5	12	150	11	0.1
200	CPW-200-D	180	78	125	M6	12	100	19	0.2
300	CPW-300-D	185	n/a	140	n/a	n/a	180	21	0.5
500	CPW-500-D	250	n/a	165	n/a	n/a	250	42	0.5
750	CPW-750-D	350	n/a	198	n/a	n/a	350	85	1
1000	CPW-1000-D	400	n/a	276	n/a	n/a	400	220	1

Note 1: Part numbers for ATEX versions will be suffixed with -ATEX-I e.g. CPW-100-D-ATEX-I. Note 2: Dimensions may change for hazardous area versions.

Spherical Load Cap (optional)



Rating (tonnes)	Н1	H2	ØD1	R
50	20	16	88	159
100	30	24	101	151
200	40	29	125	102
300	45	38	165	182
500	50	40	165	260
750	80	70	198	360
1000	80	70	276	410

Mounting Base (optional)



A summary of available wireless devices that can be used to enhance the AWLL in your application can be viewed on the next page of this datasheet.

For further assistance on system configuration, please call us or email your requirements to sales@lcmsystems.com.



TYPE: CPW

CPW Wireless Stainless Steel Compression Load Cell

Wireless Receivers/Display Options



Simple wireless

display for connecting

to 1 load cell



T24-HA Wireless display for connection to up to 12 load cells

Wireless Base Station Options





T24-BSu Wireless USB connected base station

T24-BSd Wireless compact USB . connected dongle base station

Wireless Output Module Options



T24-RM1 Wireless relav switch output module



Wireless Software Options

T24-SO Wireless serial ASCII output module



T24

Wireless analogue output

For more detailed information regarding wireless instrumentation

visit www.lcmsystems.com/T24



LCM Systems are able to offer various software solutions for our wireless range of load cells. We

The solutions we regularly offer include centre of gravity weighing and reporting, multiple load cell display & reporting and PC based datalogging. Other

Solutions in Load Cell Technology

solutions can also be offered.

T24-BSue

Wireless USB

station

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T24-HF

T24-HR

Wireless display for

connecting to

multiple load cells

module

T24-AR



T24-PR1 Wireless surface mounting tally roll printer

Wireless range



extender



encourage you to speak to our sales team to discuss any standalone software requirements you may have.

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X24-HD

ATEX Wireless display

for connection to up

to 24 load cells

T24-BSi Wireless USB, RS485, RS232 connected base station





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