PRODUCT CATALOGUE

CRANE CATALOGUE



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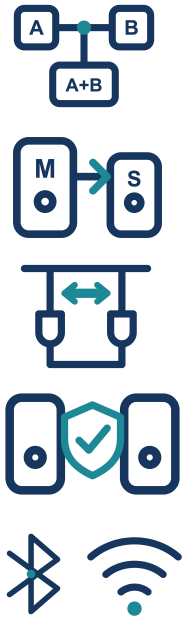
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CRC - 6 - 1 - 2 - M - 1 - J

Product family	Control buttons	Speed	Function	Communication	Battery type	Optional input
CRC Wireless control	4	1-Single speed	0-Standard	0-Standard	0-Alkaline 3×AA	O-Overload
CTX-Transmitter	6	2-Dual speed	1-A/B/A+B	I- 4-20 mA	1-Rechargeable 3×AA	W-Wind sensor
CRX-Receiver	8		2-Tandem	V-0-10 V		J-Gyroscope
	10		3-Master / Slave	M- Modbus		
			4-Controlled handover			

General description

The CRC series provides wireless remote control for cranes and industrial machinery. It allows operators to monitor the working area from a suitable location and control equipment movements.

With configurable buttons, functions and control options, the series suits overhead cranes, travelling cranes, lifting equipment and industrial machinery. Application-specific transmitter and receiver options support standard installations as well as project-specific control requirements.

Key transmitter features

GRADE II: Drop and impact protection; industrial ABS housing with rubber coating
Independent fuse for each axis movement
Four relays for hoist buttons; independent second-speed relays
After starting, the START button can be used as a dual-speed button
Conformal-coated circuit boards help resist moisture and dust

Inputs / Outputs and Communication



Standard: Relay

Optional:
RS485
RS232
CANBUS
MODBUS RTU
0-10v
4-20mA
2 x Load cells

Optional features



*A/B/A+B selection function
*Tandem
*Master / Slave
*Controlled operator handover
*Overload function with load cell input
*Export individual or total weights to Excel or PDF
*Record lifting cycles, weights and overloads in real time
*View, record, print or transfer weights on the handheld unit (via the COLM application)
*Communicate with drives and other equipment via Modbus RTU
*Log overvoltage, overcurrent, overheating and inverter faults in real time
*Assign 3rd or 4th speeds for loads at or below the rated load setting

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Main functions

Stable two-way communication at 2.4 GHz
Single- and dual-speed options for 4 / 6 / 8 / 10-button models
Operates with 3×AA alkaline or rechargeable Li-ion batteries; optional charger
240-hour battery life; internal antenna
Button combinations allow:
Pairing a new transmitter; preventing two transmitters operating simultaneously for safety
Setting standby time to 5 / 10 / 15 minutes or unlimited
Enabling / disabling simultaneous hoist, trolley and bridge movements
Range up to 150 m; percentage-based range restriction for safe operation
Enabling / disabling the horn relay during each movement
RFID operator access control and recording of crane operation, including overloads and cycles

Compliance

CE conformity for European Union countries.
PL d Category 2, Performance Level d (PL d) according to EN ISO 13849-1;
corresponding to SIL 2 according to EN 62061. (LCD3PL)

Technical specifications

Receiver supply voltage	12 VDC / 24-250 AC/DC ; 6 VA
Control relays	Up to 22
Response time	≤ 500 ms
Control range	150 m in open space with internal antenna
Communication	2.4 GHz GFSK; 128 channels
Power consumption (transmitter)	Not specified
Power consumption (receiver)	Not specified
Decimals • Display increments	0÷4 • x1 x2 x5 x10 x20 x50
Digital filter	0.25÷3 Hz
Relay outputs	Single speed: 4 buttons: 4 / 6 buttons: 6 / 8 buttons: 8 / 10 buttons: 10 Dual speed: 4 buttons: 7 / 6 buttons: 10 / 8 buttons: 13 / 10 buttons: 17
Optically isolated digital inputs	2
Serial ports	RS485, RS232
Baud rate	1200, 2400, 9600, 19200, 38400, 57600, 115200 (bit/s)
Humidity (non-condensing)	85%
Storage temperature	-30 °C +60 °C
Operating temperature	-20 °C +55°C

Key receiver features

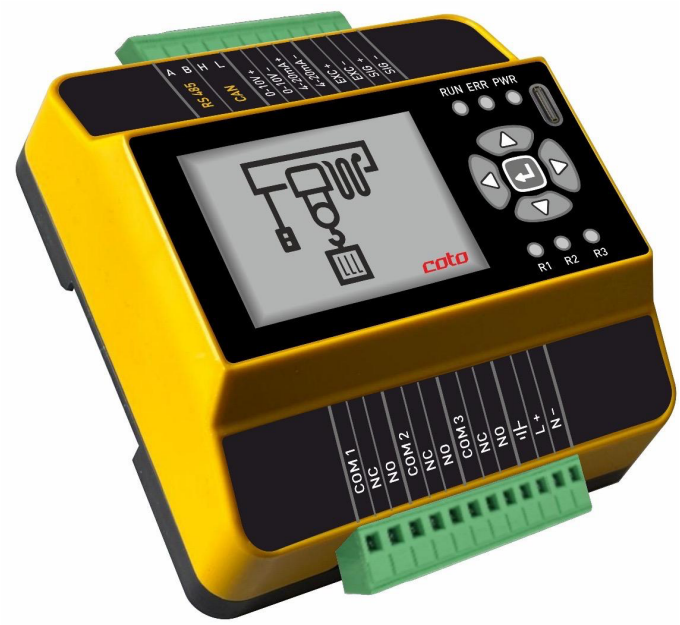


General description

One receiver suitable for all transmitters
Two series-connected 16 A safety relays
Status LEDs and Turkish/English fault labels (customisable to the customer's language)
Wiring diagram inside the cover and on the back of the unit
Vibration-resistant screw-mounted cable terminal blocks
Standard vibration mounts with 3 x M10 screws
Standard 18G0.22 mm cable, 3.5 m long, with cable gland
P65 ingress protection rating

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USB Type C

CLB - 1 - 1 - 2 - 1 - M - 1 - J

Product family	Function	Data transfer	Relay count	Load cell input	Communication	Wireless communication	Optional inputs
CLB	1-Overload	Non	**2**	**1**	M- Modbus	1 - Non(cable)	J-Angle sensor
Control unit	2-COLM mobile app	1-Type C	3	2	I- 4-20 mA	2 - Bluetooth	W-Wind sensor
	3-SCM* - Coming soon		**4**		V-0-10 V	3 - Wi-fi	

General description

Setup and calibration via keypad or Android and iOS application (2-inch full-colour TFT display).
Alarm signal in the event of a load cell connection fault.
Connection of multiple units for load limiting and summing functions.
LED indicators show relay output status.
5-key keypad.

CLL** Features

Load limiting through alarm and pre-alarm thresholds

Individual and total load limiting for systems with up to two weighing points by connecting multiple units

Connection of multiple units for load limiting and summing functions
Lifting operation counters

When the load is below the set rated value, the third and fourth relays activate to enable the system's third and fourth speed stages.

Inputs / Outputs and Communication

USB Type C

transmission via ASCII protocol

• CLL**
- 4 relay outputs
- 2 dedicated load cell inputs
- Integrated RF interface for connecting multiple units (optional)
- 2 independent load cell inputs for individual or combined load limiting
- 2 digital inputs
- 2 selectable analog inputs; 2 selectable analog outputs; CANBUS
- MODBUS

SCM® Features

All the following functions can be controlled remotely via iOS and Android applications.

*Calibration
*Tare function
*Individual configuration of four relay outputs
*Gyroscope or anemometer input
*Communication with frequency inverters via Modbus
*Logging of overvoltage, overcurrent, overheating and inverter fault codes
*Real-time overload recording
*Real-time lifting cycle recording
*Real-time weight recording with product type information
*Exporting records to Excel or PDF
*Printing reports

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Main features

Connection options:

- PC/PLC connection via RS485/RS232
- External display connection via RS485/RS232
- Connection of up to 2 load cells
- RS485 or RF connection for summing function (optional).
  Continuous monitoring of load cell connection integrity

• Digital filter to reduce weight oscillation
Theoretical calibration (on the device) and real calibration (with reference weights)
Tare weight zero setting
Automatic zero setting at power-on
Gross weight zero tracking

Compliance

CE certification for European Union countries

PL d Category 2, PL d according to EN 13849-1 (equivalent to SIL 2 in EN 62061) (LCD3PL)

Technical specifications

Supply voltage and power consumption	24-250 VDC/VAC; 6 VA
Number of load cells • Load cell supply voltage	Up to 2 (350 Ω) • 10 VDC
Linearity	<0.01% full scale
Thermal drift	<0.002% full scale/°C
A/D Converter	24 bit
Measurement range	±3.9 mV
Conversions per second	3
Decimal places • Display increments	0÷4 • x1 x2 x5 x10 x20 x50
Digital filter	0.25÷3 Hz
Relay outputs	4 relay outputs: 30 VDC / 250 VAC, 2 A.
Optically isolated digital inputs	2
Serial ports	RS485, RS232
Baud rate	1200, 2400, 9600, 19200, 38400, 57600, 115200 (bit/s)
Relative humidity (non-condensing)	85%
Storage temperature	-30 °C +60 °C
Operating temperature	-20 °C +55°C

Options on request

CED



CED: IP54 aluminium enclosure, 6-digit external display and RS232/RS485 communication
CED-3X: 3 inch; 6 × 76 mm LED; 620 × 150 × 100 mm
CED-4X: 4 inch; 6 × 102 mm LED; 770 × 150 × 100 mm
RF: Integrated radio interface for connecting multiple units • RF frequency: 2.4 GHz (128 channels) • Average coverage: 100 metres - Optional



CLP

CLP IP66 pin type load cell Standard 4G0.22 mm, 3.5 m cable



CWL

CWL IP66 wire rope load cell; standard 4G0.22 mm, 3.5 m cable

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USB Type C

CLL - 1 - 1 - 2 - 1 - M - 1 - J

Product family	Function	Data transfer	Relay count	Load cell input	Communication	Wireless communication	Optional inputs
CLL	1-Overload	Non	**2**	**1**	M- Modbus	1-None (cable)	J-Angle sensor
Control unit	2-COLM mobile app	1-Type C	3	2	I- 4-20 mA	2 - Bluetooth	W-Wind sensor
			4		V-0-10 V	3 - Wi-fi	

General description

- Digital load limiter and transmitter for lifting systems.
- Omega/DIN rail mounting on a back panel or in a junction box
- Dimensions: 106 × 106 × 43 mm (including terminal blocks)
- Setup and calibration via keypad or Android/iOS application
- 6-digit display with 5 mm character height
- Alarm signal in the event of a load cell connection fault
- Connection of multiple units for load limiting and summing functions
- LED indicators show relay output status
- 5-key keypad

Inputs / Outputs and Communication

USB Type C

transmission via ASCII protocol

CLL**

- 4 relay outputs
- 2 dedicated load cell inputs
- Integrated RF interface for connecting multiple units (optional)
- 2 independent load cell inputs for individual or combined load limiting

2 digital inputs
2 selectable analog inputs
2 selectable analog outputs
CANBUS
MODBUS

CLL** Features

Load limiting through alarm and pre-alarm thresholds

- Individual and total load limiting for systems with up to two weighing points by connecting multiple units
- Connection of multiple units for load limiting and summing functions
- Lifting operation counters

When the load is below the set rated value, activation of the third and fourth relays enables the system to operate at its third and fourth speed stages.

COLM® Features

PDF

All the following functions can be controlled remotely via iOS and Android applications.

*Calibration
*Tare function
*Individual configuration of four relay outputs
*Gyroscope or anemometer input
*Communication with frequency inverters via Modbus
*Logging of overvoltage, overcurrent, overheating and inverter fault codes
*Real-time overload recording
*Real-time lifting cycle recording
*Real-time weight recording with product type information
*Exporting records to Excel or PDF
*Printing reports

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Main features

Connection options:

- PC/PLC connection via RS485/RS232
- External display connection via RS485/RS232
- Connection of up to 2 load cells
- RS485 or RF connection for summing function (optional).
  Continuous monitoring of load cell connection integrity

• Digital filter to reduce weight oscillation

Theoretical calibration (on the device) and real calibration (with reference weights)

• Tare weight zero setting

- Automatic zero setting at power-on
- Gross weight zero tracking

Compliance

CE certification for European Union countries

PL d Category 2, PL d according to EN 13849-1 (equivalent to SIL 2 in EN 62061) (LCD3PL)

Pb LEAD FREE Lead-free

Technical specifications

Supply voltage and power consumption	24-250 VDC/VAC; 6 VA
Number of load cells • Load cell supply voltage	Up to 2 (350 Ω) • 10 VDC
Linearity	<0.01% full scale
Thermal drift	<0.002% full scale/°C
A/D Converter	24 bit
Measurement range	±3.9 mV
Conversions per second	3
Decimal places • Display increments	0÷4 • x1 x2 x5 x10 x20 x50
Digital filter	0.25÷3 Hz
Relay outputs	4 relay outputs: 30 VDC / 250 VAC, 2 A.
Optically isolated digital inputs	2
Serial ports	RS485, RS232
Baud rate	1200, 2400, 9600, 19200, 38400, 57600, 115200 (bit/s)
Relative humidity (non-condensing)	85%
Storage temperature	-30 °C +60 °C
Operating temperature	-20 °C +55°C

Options on request

CED



CED: IP54 aluminium enclosure, 6-digit external display and RS232/RS485 communication
CED-3X: 3 inch; 6 × 76 mm LED; 620 × 150 × 100 mm

CED-4X: 4 inch; 6 × 102 mm LED; 770 × 150 × 100 mm
RF: Integrated radio interface for connecting multiple units • RF frequency: 2.4 GHz (128 channels) • Average coverage: 100 metres

CLP



CLP IP66 pin type load cell; standard 4G0.22 mm, 3.5 m cable

CWL



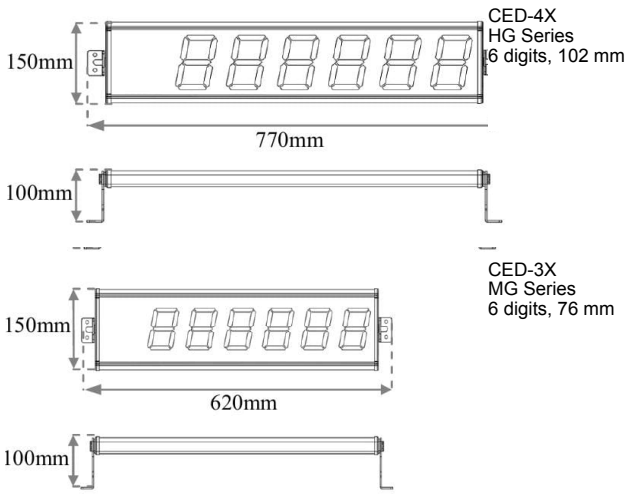
CWL IP66 wire rope load cell Standard 4G0.22 mm, 3.5 m cable

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DIMENSIONS



CED-4X
HG Series
6 digits, 102 mm

CED-3X
MG Series
6 digits, 76 mm

CED - 4X - L - 2 - 1 - M - 01 - 01

Product family	Dimensions (inch / mm)	Control unit	Relay count	Load cell input	Communication	Wireless communication	Optional inputs
CED	3" - 620x150x100	Non	Non	Non	M- Modbus	01-None (cable)	J-Angle sensor
External display	4" - 770x150x100	**L**	**2**	**1**	I- 4-20 mA	02 - Bluetooth	W-Wind sensor
			3	**2**	V-0-10 V	03 - Wi-fi	
			4				

General description

• Digital load limiter and transmitter for lifting systems.

- Setup and calibration via keypad or Android/iOS application
- 6-digit LED display with 3- or 4-inch character height
- Alarm signal in the event of a load cell connection fault
- Connection of multiple units for load limiting and summing functions

- LED indicators show relay output status
- 5-key keypad

CED Features

Load limiting through alarm and pre-alarm thresholds

Individual and total load limiting for systems with up to two weighing points by connecting multiple units

Connection of multiple units for load limiting and summing functions

Lifting operation counters

When the load is below the set rated value, the third and fourth relays activate to enable the system's third and fourth speed stages.

Inputs / Outputs & Communication

• RS485/RS232 serial ports for continuous one-way data transmission via ASCII protocol

4 relay outputs
2 dedicated load cell inputs
Integrated RF interface for connecting multiple units (optional)
2 independent load cell inputs for individual or combined load limiting
2 digital inputs
2 selectable analog inputs
2 selectable analog outputs
CANBUS
MODBUS

CED Features

- Calibration
- Tare function
- Individual configuration of four relay outputs
- Gyroscope or anemometer input
- Communication with frequency inverters via Modbus
- Logging of overvoltage, overcurrent, overheating and inverter fault codes
- Real-time overload recording
- Real-time lifting cycle recording
- Real-time weight recording with product type information
- Exporting records to Excel or PDF
- Printing reports

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Main features

Connection options:

- PC/PLC connection via RS485/RS232
- External display connection via RS485/RS232
- Connection of up to 2 load cells
- RS485 or RF connection for summing function (optional).
  Continuous monitoring of load cell connection integrity

• Digital filter to reduce weight oscillation
Theoretical calibration (on the device) and real calibration with reference weights
• Tare weight zero setting
Automatic zero setting at power-on
Gross weight zero tracking

Compliance

CE certification for European Union countries

PL d Category 2, PL d according to EN 13849-1 (equivalent to SIL 2 in EN 62061) (LCD3PL)

Lead-free

Technical specifications

Supply voltage and power consumption	24–48 VDC/VAC; 6 VA 24–250 VAC; 6 VA
Number of load cells • Load cell supply voltage	Up to 2 (350 Ω) • 4 VDC
Linearity	<0.01% full scale
Thermal drift	<0.002% full scale/°C
A/D Converter	24 bit
Measurement range	±3.9 mV
Conversions per second	3
Decimal places • Display increments	0÷4 • x1 x2 x5 x10 x20 x50
Digital filter	0.25÷3 Hz
Relay outputs	CED Standard: 2 independently programmable control relays CED Optional: 4 independently programmable control relays 30 VDC/250 VAC; 2 A
Optically isolated digital inputs	n. 2
Serial ports	RS485, RS232
Baud rate	1200, 2400, 9600, 19200, 38400, 57600, 115200 (bit/s)
Relative humidity (non-condensing)	85%
Storage temperature	-30 °C +60 °C
Operating temperature	-20 °C +55 °C

Options on request

CLL



CLB



- CLL: COLM and overload limiter control unit
- CLB: SCM and overload limiter control unit



CLP



CWL

- CLP: Pin type load cell
- CWL: Wire rope load cell

For more information, please visit the product page

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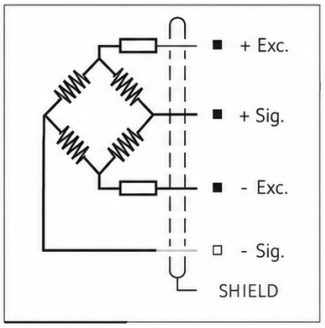
CL	W	10	SS	2	1	1	1
Product family	Mounting type	**Capacity (t)**	Body material	**Resistance**	Rope diameter	**Output**	**Version**
CWL Wire rope type	P: Pin type W: Wire rope	1 / 2 / 3 / 5 10 / 15 / 20 / 50	S: Alloy steel SS: Stainless steel	2: 350 Ω 4: 700 Ω	1: 8–18 mm 2: 12–22 mm 3: 22–36 mm	mV I: 4–20 mA V: 0–10 V M: Modbus RTU	1: Standard 2: Special

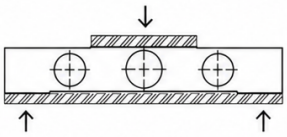
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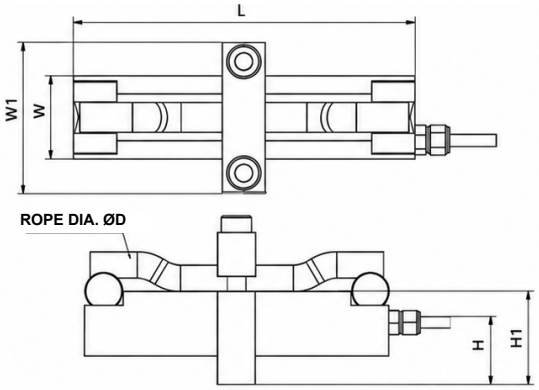
The CWL wire rope load cell provides accurate and reliable measurements with its wire rope design and four-point sensing capability. It is designed for cranes, mobile weighing applications and industrial load measurement systems.

CWL is available in different sizes and capacities. Alongside standard mV/V output, it offers 4-20 mA and 0-10 V analog outputs and RS485 digital communication for integration with a wide range of control and automation systems.

TECHNICAL DIMENSIONS







Capacity	A	B	C	D	E	H	Rope dia.	Cable
1 Ton	150	46	20	32	76.5	70-76	Ø 8 / 14	3.5 m
2.5 Ton	170	46	25	32	76.5	75-85	Ø 10 / 20	3.5 m
5 Ton	200	53	34	38.1	84	96-108	Ø 12 / 28	3.5 m
10 Ton	220	53	39	38.1	100	96-113	Ø 18 / 34	3.5 m
20 Ton	280	53	40	38.1	100	96-120	Ø 20 / 36	3.5 m

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MAIN FUNCTIONS

Optional connections

- PC/PLC connection via RS485/RS232
- Remote display connection via RS485/RS232
- 4-20 mA and 0-10 V analog output options
- Four strain gauges for maximum load measurement accuracy.

COMPLIANCE

CE certification for European Union countries.

IP66 protection against dust and powerful water jets.

TECHNICAL SPECIFICATIONS

Capacity	From 1 to 200 tonnes
Accuracy class	D1
Maximum recommended excitation voltage	15 VDC
Recommended excitation voltage	10 VDC
Minimum measurement interval (Y=Emax / Vmin)	-
Total error	±0.5 %FS
Rated output at full scale (FS)	1.2 ± 0.2mV/V
Zero balance	± 1 %FS
Input resistance	380 Ω ± 20 Ω 720 Ω ± 20 Ω
Output resistance	350 Ω ± 5 Ω 702 Ω ± 5 Ω
Insulation resistance	≤ 5000 MΩ (100VDC)
Compensated temperature range	-10 to +40 °C (Optional)
Operating temperature range	-30 to +70 °C
IP rating	IP 66
Material	Alloy steel / Stainless steel
Safe overload capacity / Ultimate overload capacity	150 % FS / 300 % FS

OPTIONS ON REQUEST





DESCRIPTION

CED: Aluminium profile enclosure, IP54 protection, plexiglass front panel.
Dimensions: CED-4X: 770 × 150 × 100 mm; CED-3X: 620 × 150 × 100 mm; four Ø4 mm mounting holes.

- CLL**
- SCM and overload limiter control unit
- For more information, please visit the product page.

CLB

- SCM and overload control unit
- For more information, please visit the product page.

OPTIONS

- BLACKBOX functions
- Integrated RF interface for connecting multiple units: 2.4 GHz (128 channels)
- Average range: 100 metres (open area)

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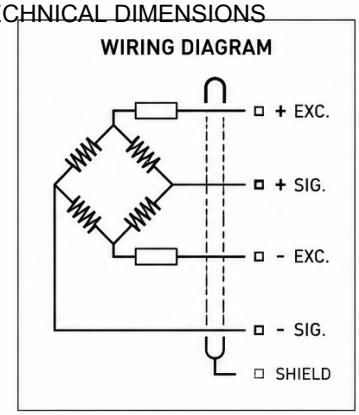
CL	P	10	SS	2	1	1
Product family	Mounting type	**Capacity (t)**	Body material	**Resistance**	**Output**	**Version**
CLP Pin type	P: Pin type W: Wire rope	1 / 2 / 3 / 5 10 / 15 / 20 / 50	S: Alloy steel SS: Stainless steel	2: 350 Ω 4: 700 Ω	mV I: 4–20 mA V: 0–10 V M: Modbus RTU	1: Standard 2: Special

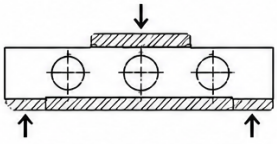
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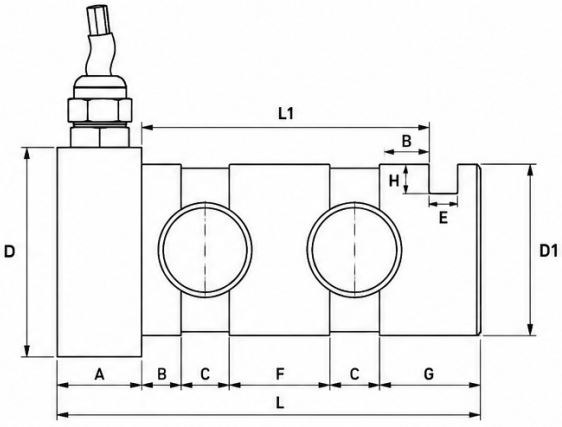
The CLP pin type load cell provides accurate and reliable measurements with its cylindrical pin design and four-point sensing capability. It is designed for cranes, mobile weighing applications and industrial load measurement systems.

CLP is available in different sizes and capacities. Alongside standard mV/V output, it offers 4-20 mA and 0-10 V analog outputs and RS485 digital communication for integration with a wide range of control and automation systems.

TECHNICAL DIMENSIONS







CAPACITY	D	D1	L	L1	A	B	C	E	F	G	H	CABLE
1 - 2 Ton	39	30	81	52	16	7	10	6	18	20	6	3.5 m
3 Ton	44	35	82	55	16	8	10	6	19	19	6	3.5 m
5 Ton	49	40	96	64	20	9.5	12	7	21	21.5	8	3.5 m
10 Ton	59	50	114	80	20	10	16	7	28	24	8	3,5 m

All dimensions are in mm.

CABLE LENGTH: 3.5 m

TOLERANCE: ±1 mm

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MAIN FUNCTIONS

Optional connections

- PC/PLC connection via RS485/RS232
- Remote display connection via RS485/RS232
- 4-20 mA and 0-10 V analog output options
- Four strain gauges for maximum load measurement accuracy.

COMPLIANCE

CE certification for European Union countries.

IP66 protection against dust and powerful water jets.

TECHNICAL SPECIFICATIONS

Capacity	From 1 to 200 tonnes
Accuracy class	D1
Maximum recommended excitation voltage	15 VDC
Recommended excitation voltage	10 VDC
Minimum measurement interval (Y = Emax / Vmin)	-
Total error	±0.5 %FS
Rated output (full scale)	1.2 ± 0.2mV/V
Zero balance	± 1 %FS
Input resistance	380 Ω ± 20 Ω 720 Ω ± 20 Ω
Output resistance	350 Ω ± 5 Ω 702 Ω ± 5 Ω
Insulation resistance	≤ 5000 MΩ (100VDC)
Compensated temperature range	-10 to +40 °C (Optional)
Operating temperature range	-30 to +70 °C
IP rating	IP 66
Material	Alloy steel / Stainless steel
Safe overload capacity / Ultimate overload capacity	150 % FS / 300 % FS

OPTIONS ON REQUEST





DESCRIPTION

CED: Aluminium profile enclosure, IP54 protection, plexiglass front panel
Dimensions: CED-4X: 770 × 150 × 100 mm; CED-3X: 620 × 150 × 100 mm
(Four mounting holes, Ø4 mm)
- CLL**
- SCM and overload limiter control unit
- For more information, please visit the product page.

CLB

- SCM and overload control unit
- For more information, please visit the product page.

OPTIONS
- BLACKBOX functions
- Integrated RF interface for connecting multiple units: 2.4 GHz (128 channels)
- Average range: 100 metres (open area)

The company reserves the right to change technical data, drawings and images without prior notice.

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