

COMING SOON



DESCRIPTION

- LCB transforms an analog load cell (mV/V output) into a digital one; it can also be used on existing load cells to digitize the weighing system.
- Conceived for IoT applications (Internet of Things).
- PC configuration software via micro USB port.
- Status LED of the communication interface.
- Mounting: wired or integral to the load cell body via standard 1/4 GAS fitting (specific adapters for different threads are supplied on request).
- IP67 box in AISI 304 stainless steel or PA66 nylon reinforced with glass fiber (dimensions: 90x40x107 mm including flying connectors).
- Suitable for wall mounting (supports included: 2 fixing holes Ø 6 mm; centre distance: 68 mm).
- 3x IP67 M12 flying connectors included in the supply.
- The instrument can be configured and managed using the free "Instrument Manager" PC software, which you can download from www.laumas.com.

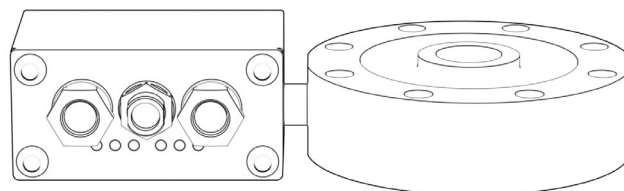
INPUTS/OUTPUTS AND COMMUNICATION

- 1 micro USB port.
- 3 relay outputs controlled by the setpoint values or via protocols.
- 2 digital inputs: status reading via serial communication protocols.
- 1 load cell input.

SUPPORTS
FOR WALL MOUNTING



MICRO USB FOR
PC CONFIGURATION



EXAMPLE OF APPLICATION WITH LOAD CELL

CERTIFICATIONS



Complies with the Eurasian Customs Union regulations
Equivalent of the CE marking for the United Kingdom

FIELD BUSES

MODBUS RTU

MODBUS/TCP

ETHERNET
TCP/IP

ETHERNET
POWERLINK

EtherCAT

EtherNet/IP

PROFINET

PROFINET

CC-Link

CC-Link IE Basic

IO-Link

CANopen

SERCOS
interface

INTERFACES AND FIELDBUSES

	stainless steel	plastic
	EURO	EURO
RS485. Male M12 circular connector, A-coded, 5-pin. Female M12 circular connector, A-coded, 5-pin. Baud rate: 2400, 4800, 9600, 19200, 38400, 115200 (bit/s).		coming soon
RS485 + analog output. Current: 0÷20 mA; 4÷20 mA (up to 400 Ω). Voltage: 0÷10 V; 0÷5 V (min 2 kΩ). Male M12 circular connector, A-coded, 5-pin. Female M12 circular connector, A-coded, 5-pin.	528,00	398,00
IO-Link. 2x male M12 circular connector, A-coded, 4-pin. The instrument works as <i>device</i> in a IO-Link network.	528,00	398,00
CANopen. Male M12 circular connector, A-coded, 5-pin. Female M12 circular connector, A-coded, 5-pin. The instrument works as <i>slave</i> in a CANopen synchronous network.	561,00	431,00
CC-Link IE Field Basic. 2x female M12 circular connectors, D-coded, 4-pin. The instrument works as <i>slave</i> in a CC-Link IE Field Basic network.	605,00	475,00
CC-Link. Male M12 circular connector, A-coded, 4-pin. Female M12 circular connector, A-coded, 5-pin. The instrument works as <i>Remote Device Station</i> in a CC-Link network and occupies 3 stations.		coming soon
Profibus DP. Male M12 circular connector, B-coded, 5-pin. Female M12 circular connector, B-coded, 5-pin. The instrument works as <i>slave</i> in a Profibus DP network.		coming soon
Modbus/TCP. 2x female M12 circular connectors, D-coded, 4-pin. The instrument works as <i>slave</i> in a Modbus/TCP network.	605,00	475,00
Ethernet TCP/IP. Female M12 circular connector, D-coded, 4-pin. The instrument works in an Ethernet TCP/IP network and it is accessible via web browser.		coming soon
Ethernet/IP. 2x female M12 circular connectors, D-coded, 4-pin. The instrument works as <i>adapter</i> in an Ethernet/IP network.	605,00	475,00
Profinet IO. 2x female M12 circular connectors, D-coded, 4-pin. The instrument works as <i>device</i> in a Profinet IO network.	605,00	475,00
EtherCAT. 2x female M12 circular connectors, D-coded, 4-pin. The instrument works as <i>slave</i> in an EtherCAT network.	605,00	475,00
POWERLINK. 2x female M12 circular connectors, D-coded, 4-pin. The instrument works as <i>slave</i> in a Powerlink network.	605,00	475,00
SERCOS III. 2x female M12 circular connectors, D-coded, 4-pin. The instrument works as <i>slave</i> in a Sercos III network.	605,00	475,00

MAIN FUNCTIONS

- Connections to:
 - PLC via analog output or fieldbuses;
 - PC/PLC via RS485 (up to 99 instruments with line repeaters, up to 32 without line repeaters);
 - up to 4 load cells in parallel by junction box.
- TCP/IP WEB APP: integrated software in combination with the Ethernet TCP/IP version for remote supervision, management and control of the instrument.
- Digital filter to reduce the effects of weight oscillation.
- Theoretical calibration (via PC software) and real calibration (with sample weights and the possibility of weight linearization up to 8 points).
- Calibration via characterization values of the load cell.
- Tare weight zero setting.
- Automatic zero setting at power-on.
- Gross weight zero tracking.
- Semi-automatic tare (net/gross weight) and preset tare.
- Semi-automatic zero.
- Direct connection between RS485 and RS232 without converter.
- Configuration backup and restore via PC software.

BASE PROGRAM

- Hysteresis and setpoint value setting.

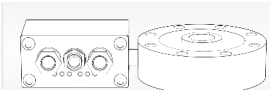
SINGLE PRODUCT LOADING PROGRAM

- 99 settable formulas.
- Automatic fall calculation.
- Tolerance error control.
- Precision batching through slow function.
- Precision batching through tapping function.
- Consumption storage.
- Batching start via external contact or fieldbus.

TECHNICAL FEATURES

Power supply and consumption	12÷24 VDC ±10%; 5 W
Number of load cells • Load cells supply	up to 4 (350 Ω) - 4/6 wires • 3.3 VDC/40 mA
Linearity • Analog output linearity	<0.01% full scale • <0.01% full scale
Thermal drift • Analog output thermal drift	<0.0005% full scale/°C • <0.003% full scale/°C
A/D Converter	24 bit (16000000 points) - 4.8 kHz
Divisions (with measurement range ±10 mV and sensitivity 2 mV/V)	±999999 • 6.6 nV/d
Measurement range	±26 mV
Usable load cells sensitivity	±7 mV/V
Conversions per second	500/s
Decimals • Display increments	0÷4 • x1 x2 x5 x10 x20 x50 x100
Digital filter • Readings per second	3 filter types • 5÷500 Hz
Relay outputs	3 - max 115 VAC/150 mA - 24 VDC/200 mA
Digital inputs	2 - 5÷24 VDC
Micro USB port	B type - USB 2.0 (full-speed)
Humidity (condensate free)	85%
Storage temperature	-30 °C +80 °C
Working temperature	-20 °C +50 °C

OPTIONS ON REQUEST

DESCRIPTION		EURO
	Load cell + instrument wiring.	32,00

The Company reserves the right to make changes to the technical data, drawings and images without notice.