WEIGHT TRANSMITTER - RS485 - RS232

















MODBUS RTU

DESCRIPTION

- Weight transmitter in IP67 polycarbonate box with 3 PG9 cable glands.
- Dimensions: 170x80x65 mm (four fixing holes Ø4 mm; centre distance:
- Backlit alphanumeric LCD display, two-line by 8-digit (5 mm height), visible area: 38x16 mm.
- 6 signalling LED.
- 4-key membrane keyboard.

INPUTS/OUTPUTS AND COMMUNICATION

- RS485/RS232 serial ports for communication via protocols ModBus RTU, ASCII Laumas bidirectional or continuous one way transmission.
- 4 relay outputs controlled by the setpoint values or via protocols.
- 2 PNP digital inputs: status reading via serial communication protocols.
- 1 load cell dedicated input.

MAIN FUNCTIONS

- Connections to:
 - PC/PLC via RS485/RS232 (up to 99 instruments with line repeaters, up to 32 without line repeaters);
 - up to 8 load cells in parallel by junction box;
 - W series instruments via RS485.
- Digital filter to reduce the effects of weight oscillation.
- Theoretical calibration (via keyboard) and real calibration (with sample weights and the possibility of weight linearization up to 5 points).
- 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.
- Displaying of the maximum weight value reached (peak).
- Hysteresis and setpoint value setting.
- Energy saving mode.
- All functions can be managed by a W series instrument connected via RS485 serial port (excluding instruments with graphic display).



CERTIFICATIONS



OIML R76:2006, class III, 3x10000 divisions, $0.6 \mu V/VSI$

CERTIFICATIONS ON REQUEST

М Initial verification in combination with Laumas weighing module

c**PL** us UL Recognized component - Complies with the United States and Canada standards EHC

Complies with the Eurasian Custom Union standards



TECHNICAL FEATURES

Power supply and consumption		12÷24 VDC ±10%; 2 W
Number of load cells • Load cells supply		up to 8 (350 Ω) - 4/6 wires • 5 VDC/120 mA
Linearity		<0.01% full scale
Thermal drift		<0.0005% 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 • 0.01 μV/d
Measurement range		±39 mV
Usable load cells sensitivity		±7 mV/V
Conversions per second		300/s
Display range		±999999
Decimals • Display increments		0÷4 • x1 x2 x5 x10 x20 x50 x100
Digital filter • Readings per second		10 levels • 5÷300 Hz
Relay outputs		4 - max 115 VAC/150 mA
Optoisolated digital inputs		2 - 5÷24 VDC PNP
Serial ports		RS485, RS232
Baud rate		2400, 4800, 9600, 19200, 38400, 115200 (bit/s)
Humidity (condensate free)		85%
Storage temperature		-30°C +80°C
Working temperature		-20°C +60°C
c 91 1° us	Relay outputs	4 - max 30 VAC, 60 VDC/150 mA
	Working temperature	-20°C +60°C
	Power supply device marked "LPS" (limited power source) or	"Class 2"

METROLOGICAL SPECIFICATIONS OF TYPE-APPROVED INSTRUMENTS

Applied standards	2014/31/UE - EN45501:2015 - OIML R76:2006
Operation modes	single interval, multi-interval, multiple range
Accuracy class	III or IIII
Maximum number of scale verification divisions	10000 (class III); 1000 (class IIII)
Minimum input signal for scale verification division	0.6 μV/VSI
Working temperature	-10°C +40°C

OPTIONS ON REQUEST



Rechargeable external lead battery.

- 12 V 2200 mAh capacity
- IP67 polycarbonate waterproof box 160x80x85 mm
 with transparent cover

 A fining bolog (34 mm) control distances 150x100 mm)

(4 fixing holes \emptyset 4 mm; centre distance: 152x122 mm).

- Battery charger.
- 26 hours operating time*.



Rechargeable internal NiMH battery.

- 8 elements 1.2 V AA type 2450 mAh capacity.
- Supplied already installed in the instrument, with external dedicated switch: 190x80x65 mm overall box dimensions.
- 24 hours operating time*.

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

OPZBATTWF

CODE

^{*} Approx. maximum operating time for typical use with fully charged battery, with 4 load cells (350 ohm) and energy saving mode enabled.