

MODBUS RTU

DESCRIPTION

- WiFi weight transmitter in IP67 polycarbonate box with 3 PG9 cable glands.
- Dimensions: 80x170x65 mm (four fixing holes Ø4 mm; centre distance: 60x120 mm). Backlit alphanumeric LCD display, two-line by 8-digit (5 mm height), visible area: 38x16 mm.
- 6 signalling LED.
- 4-key keyboard.

INPUTS/OUTPUTS AND COMMUNICATION

- WiFi module for wireless connection via integrated web server (for remote supervision, management and control of the instrument) or via ModBus RTU, ASCII Laumas protocols.
- 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 or web. н.
- 2 PNP digital inputs: status reading via serial communication protocols or web.
- 1 load cell dedicated input. ÷.

MAIN FUNCTIONS

Connections to:

- PC via WiFi/virtual Ethernet port;
- PC/PLC via RS485/RS232 (up to 99 instruments with line repeaters, up to 32 without line repeaters);
- others TLKWF devices and Laumas W series instruments (equipped with OPZW1RADIO optional module) via WiFi;
- PC/smartphone/tablet via web browser (point-to-point direct connection);
- up to 8 load cells in parallel by junction box;
- W series weight indicator via RS485.
- Communication with existing WiFi networks. .
- 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. н.
- Semi-automatic zero. .
- Displaying of the maximum weight value reached (peak). .
- Hysteresis and setpoint value setting. .
- Energy saving mode. .

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All functions can be managed by a W series weight indicator connected via RS485 serial port or WiFi (excluding instruments with graphic display).

CERTIFICATIONS

OIML	OIML R76:2006, class III, 3x10000 divisions, 0.6 μ V/VSI	
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c**SL**us UL Recognized component - Complies with the United States and Canada standards

EAC Complies with the Eurasian Custom Union standards

CERTIFICATIONS ON REQUEST

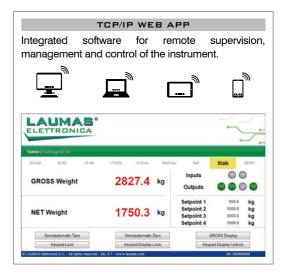
Μ Conformity assessment (initial verification) in combination with Laumas weighing module

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esaving





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)	
Wireless		WiFi module with serial protocols in tunnel mode and integrated web server. Radio range up to 100 m line of sight.	
Humidity (condensate free)		85%	
Storage temperature		-30 °C +80 °C	
Working temperature		-20 °C +60 °C	
	Relay outputs	4 - max 30 VAC, 60 VDC/150 mA	
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	Equipment to be powered by 12-24 VDC LPS or Class 2 power source		

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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

	DESCRIPTION	CODE
00	 Rechargeable external lead battery. 12 V - 2200 mAh capacity IP67 polycarbonate box 160x80x85 mm with transparent cover (4 fixing holes Ø4 mm; centre distance: 152x122 mm). Battery charger. 26 hours operating time*. 	BATEXT
ALCA A	 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 *. * Approx. maximum operating time for typical use with fully charged battery. 	OPZBATTWF
	* Approx. maximum operating time for typical use with fully charged battery, with 4 load cells (350 ohm) and energy saving mode enabled.	

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