TLKWF

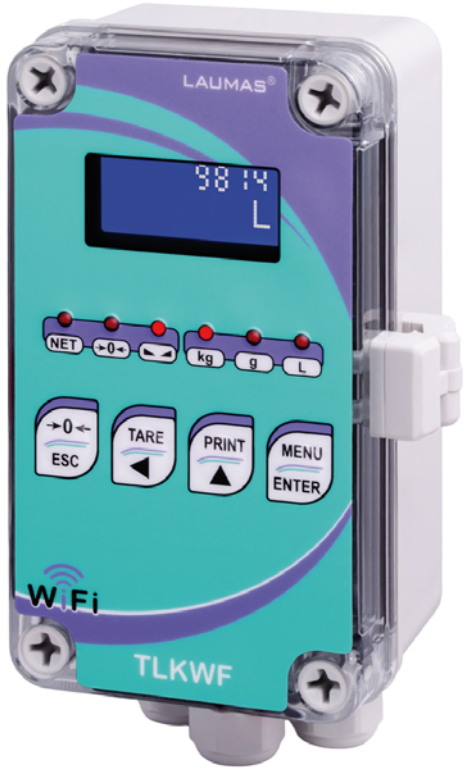
DIGITAL WEIGHT TRANSMITTER - WiFi - RS485 - RS232

LAUMAS® ELETTRONICA

IP67 · WiFi · RS485 RS232 · eSAVING · MODBUS RTU

DESCRIPTION

- WiFi weight transmitter in IP65 polycarbonate box with 3 PG9 cable glands (on request IP67 version).
- Dimensions: 170x80x65 mm (four fixing holes Ø4 mm; centre distance 120x60 mm).
- Backlit alphanumeric LCD display, 38x16 mm visible area, two-line by eight-digit (5 mm height).
- Six indicator LED.
- Four-key membrane keyboard for calibration and system configuration.



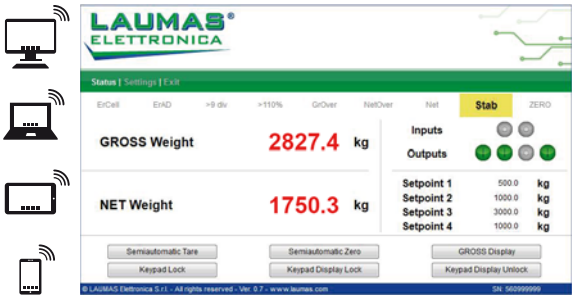
INPUT/OUTPUT AND FIELDBUSES

- WiFi module for wireless connection via integrated web server (to display the status and to manage the host instrument parameters) or via ModBus RTU, ASCII Laumas protocols.
- RS485/RS232 serial ports for communication via ModBus RTU protocol, ASCII Laumas bidirectional or continuous one way transmission.
- 4 relay digital outputs controlled by the setpoint values or via protocols or web
- 2 PNP digital inputs: status reading via serial communication protocols or web.
- 1 load cell 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 W series Laumas instruments with OPZW1RADIO optional module via WiFi.
  - PC / smartphone / tablet via web browser (point-to-point direct connection).
  - max. 8 load cells in parallel.
- Communication via existing WiFi networks.
- Digital filter to reduce the effects of weight oscillation.
- Theoretical calibration (via keyboard) and real (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 predetermined tare.
- Semi-automatic zero.
- Displaying the maximum weight value reached (peak).
- Setting of setpoint values and hysteresis.
- Energy saving mode.

WIFI WEB SERVER & SITE Integrated web site in combination with WiFi connection for supervision, management and remote control of the weight transmitter. The web site is displayed on PC, smatphone and tablet with standard browsers (Explorer, Safari, Chrome, etc).



CERTIFICATIONS

CERTIFICATIONS ON REQUEST	
EAC	Complies with the Eurasian Custom Union regulations (Russia, Belarus, Kazakhstan)

Rev. 00 del 12/03/2015

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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) - 4.8kHz
Divisions (with measure range ±10 mV and sensitivity 2 mV/V)	±999999 • 0.01 μV/d
Measure range	±39 mV
Load cell's sensitivity	±7 mV/V
Conversion per second	300/s
Display range	±999999
Decimals • Display increments	0÷4 • x1 x2 x5 x10 x20 x50 x100
Digital filter • Conversion rate	0.012÷7 s • 5÷300 Hz
Relay digital outputs	n. 4 - 115 VAC/0.5 A
Digital inputs	n. 2 - 5÷24 VDC PNP
Serial port	RS485, RS232
Baud rate	2400, 4800, 9600, 19200, 38400, 115200 (bit/s)
Wireless	WiFi module with serial tunneling protocols and integrated web server. Radio range up to 100 m in free air.
Humidity (condensate free)	85%
Storage temperature	-30°C +80°C
Working temperature	-20°C +60°C

OPTIONS ON REQUEST

	DESCRIPTION	CODE
	**IP67 polycarbonate waterproof box** 170x80x65 mm (4 fixing holes Ø4 mm; centre distance120x60 mm) ▪ 2 PG9 cable glands ▪ Extractable power connector ➔ *instrument not included*	OPZWFIP67
	**Rechargeable external lead battery** ▪ 12 V - 2200 mAh capacity ▪ IP67 polycarbonate waterproof box 160x80x85 mm with transparent cover (4 fixing holes Ø4 mm; centre distance120x60 mm) ▪ Battery charger. ▪ 26 hours operating time*	BATEXT
	**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 dimensions box ▪ 24 hours operating time*	OPZBATTWF

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

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ISO 9001:2008
ISO 14001:2004