

LAUMAS®



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WTAB-2G WEIGHT INDICATOR

LAUMAS®

DESCRIPTION

- ABS desk weight indicator. н.
- Dimensions: 315x170x315 mm. .
- Backlit LCD graphic display, resolution: 240x128 pixel, visible area: 128x75 mm.
- 27-key keyboard.
- IP40 protection rating. ×.
- Real-time clock/calendar with buffer battery. -
- Power supply included.
- D-SLIB connectors
- Multilanguage software (4 languages + 1 customizable). -

INPUTS/OUTPUTS AND COMMUNICATION

- RS485/RS232 serial ports for communication via protocols н. ModBus RTU, ASCII Laumas or continuous one way transmission.
- 5 relay outputs controlled by the setpoint values or via protocols . (4 outputs if analog output is present).
- 3 optoisolated PNP digital inputs: status reading via serial communication protocols (2 inputs if analog output is present).
- 1 load cell dedicated input.
- Current or voltage 16 bit optoisolated analog output (option on request).
- WiFi module (option on request).

		Piece co	un
1 2 3	NAME: TARE: TOTAL: NUM: TOT PCS	BULT 12 kg 19691 kg 357	
4-	PCS:	65	
5-	360	5	

Example screens iter

- 1. Totalized weight since last
- deletion. Performed weighings since last 2 deletion.
- 3. Totalized pieces since last deletion
- 4. Number of pieces.
- 5. Net weight.

Totalizer

- TOT: 4974 3 שרר בו 4
- 1 Date of last deletion 2. Performed weighings since last
- deletion.
- 3. Totalized weight since last deletion.
- 4. Net weight

Statistical checking of prepackages

- œ 1 Z1 Z2 Z3 Z4 Z5 3-4 1004 🖭
- 1. Nominal weight. 2. Checked samples/total
- samples.
- 3. Tolerance zone.
- 4. Net weight

MAIN FUNCTIONS

- Connections to:
 - PLC via analog output (on request);
 - PC/PLC via RS485/RS232 (up to 99 instruments with line repeaters, up to 32 without line repeaters);
 - remote display and printer via RS485/RS232;
 - up to 8 load cells in parallel by junction box.
 - IoT gateway for cloud connection via RS485.
- TCP/IP WEB APP: integrated software in combination with the WiFi module and Ethernet TCP/IP options for remote supervision, management and control of the instrument.
- Piece counting.
- Weight totalizing. н.
- Statistical checking of prepackages. н.
- 99 items database with association of a preset tare value, 3 setpoint values and 2 values for weight thresholds function (HIGH/LOW).
- Weight thresholds function (HIGH/LOW) shown on the display. .
- Customizable name of the production lot. ÷.
- Barcodes printing by lot name, item name, weighings progressive number.
- 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 8 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).
- Direct connection between RS485 and RS232 without converter.
- Hysteresis and setpoint value setting. .
- 12 groups selection by 5 setpoint via external selector switch or contact (option on request).
- Weight value printing with date and time via keyboard or external contact.
- The indicator can be used as a remote display with setpoint.
- Labeling machine management.

Approved versions for legal for trade use

- System parameters management protected by qualified access via software (password), hardware or fieldbus.
- Weight subdivisions displaying (1/10 e).
- Three operation mode: single interval or multiple ranges or multi-interval.
- Net weight zero tracking. -
- Calibration. .
- Alibi memory (option on request).
- The following values can be printed via keyboard or external contact: gross weight, net weight, tare, preset tare, date, time, ID code (alibi memory).

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TECHNICAL FEATURES

Power supply and consumption	12÷24 VDC ±10%; 6 W	
Number of load cells • Load cells supply	up to 8 (350 Ω) - 4/6 wires • 5 VDC/120 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 • 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	5/4 - max 115 VAC/150 mA	
Optoisolated digital inputs	3/2 - 5 ÷ 24 VDC PNP	
Serial ports	RS485, RS232	
Baud rate	2400, 4800, 9600, 19200, 38400, 115200 (bit/s)	
Optoisolated analog output (option on request)	16 bit = 65535 divisions. 0÷20 mA; 4÷20 mA (up to 300 Ω) 0÷10 V; 0÷5 V; ±10 V; ±5 V (min 10 kΩ)	
Humidity (condensate free)	85%	
Storage temperature	-30 °C +80 °C	
Working temperature	-20 °C +60 °C	
Relay digital outputs	5/4 - max 30 VAC, 60 VDC/150 mA	



Working temperature

Equipment to be powered by 12-24 VDC LPS or Class 2 power source

METROLOGICAL SPECIFICATIONS OF Type-Approved instruments	OIML	NTEP
Applied standards by region	EU: 2014/31/UE; OIML R76:2006; EN45501:2015 Russian Federation: GOST OIML R76-1-2011 United Kingdom: Non-automatic Weighing Instrument Regulations 2016 Australia: National Measurement Regulations 1999 New Zealand: Weights and Measures Regulations 1999 China: Law on Metrology of the People's Republic of China	USA: NIST HANDBOOK 44, 2020; NCWM PUB 14, 2021
Operation modes	single interval, multi-interval, multiple range	single interval, multi-interval, multiple range
Accuracy class	III or IIII	III or IIIL
Maximum number of scale verification divisions	10000 (class III); 1000 (class IIII)	10000 (class III/IIIL)
Minimum input signal for scale verification division	0.2 µV/VSI	
Working temperature	-10 °C +40 °C	-10 °C +40 °C (+14 °F +104 °F)

-20 °C +50 °C



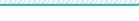
OPTIONS ON REQUEST



OPTIONS ON REQUEST		
	POWER SUPPLY	CODE
<u> </u>	12.2 V rechargeable lead battery, 2.8 Ah capacity, supplied already installed in the instrument. Operating time: 16 hours.	OPZWBATTWTAB
	ACCESSORIES	
	Integrated thermal printer: 24 column, paper end sensor, working temperature: $0 \div 50$ °C, humidity: 20% ÷ 80%, paper roll included (width: 57 ±0.5 mm - outside diameter: 50 mm). \Rightarrow <i>RS485 port not available.</i>	OPZWTABSTA
o	Thermal paper roll.	CARTASTAVP
	Adhesive thermal paper roll.	CARTAFISCADEN
	INTERFACES AND FIELDBUSES	
WÎFi	WiFi module (2.4 GHz) for wireless connection via integrated web server (for remote supervision, management and control of the instrument) or via ModBus RTU, ASCII Laumas protocols.	* OPZW1RADIOTAB
ANALOG OUTPUT	Optoisolated 16 bit analog output . → One input and one output not available.	* OPZW1ANALOGICA
RS485 ⁺	Additional RS485 port. → One input and one output not available.	* OPZW1RS485D
CAN opea	CANopen protocol.	* OPZW1CADB9
DeviceNet	DeviceNet protocol.	* OPZW1DEDB9
	Profibus DP protocol.	* OPZW1PRDB9
EtherNet/IP	Ethernet/IP protocol - Ethernet port.	* OPZW1ETIPDB9
ETHERNET TCP/IP	Ethernet TCP/IP protocol - Ethernet port. Integrated software for remote supervision, management and control of the instrument.	* OPZW1ETTCPDB9
	* Select one option among those marked with an asterisk.	

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OPTIONS ON REQUEST

		CODE
MODBUS/TCP	Modbus/TCP protocol - Ethernet port.	★ OPZW1MBTCPDB9
ROFISUS - PROFINET	Profinet IO protocol - Ethernet port.	* OPZW1PNETIODB9
	USB port for data storage to pen drive (included). These data (weighed values, alarms) can be imported and processed on the PC using the PROG-DB software included in the supply. Support for keyboard and barcode reader.	OPZWUSBDB9
0-10	Weight reading from 0-10 VDC input (15 $k\Omega$).	OPZWING010
4-20	Weight reading from 4-20 mA input (120 Ω).	OPZWING420
	APPLICATIONS - SOFTWARE	
	Alibi memory.	OPZWALIBI
	Data transfer from the instrument to the PC, via RS232 (directly) or RS485 (by converter) serial port. These data (weighed values, alarms) can be imported and processed on the PC using the PROG-DB software included. We suggest to use this option when the indicator is always connected to the PC.	OPZWDATIPC

* Select one option among those marked with an asterisk.

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