

DESCRIPTION

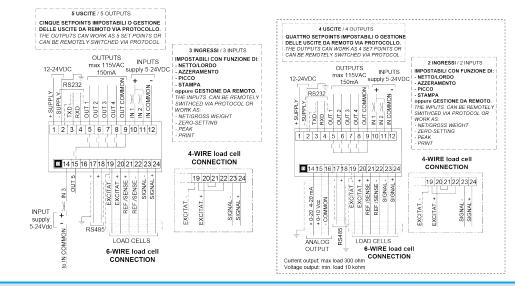
- Weight indicator in DIN box suitable for front panel mounting (dimensions: 48x96x130 mm; drilling template: 45x92 mm).
- 6-digit red LED semi-alphanumeric display (14 mm height), 7-segment.
- 8 signalling LED.
- 4-key membrane keyboard.
- IP54 front panel protection rating (IP65 front optional).
- Real-time clock/calendar with buffer battery.
- Extractable screw terminal blocks.

INPUTS/OUTPUTS AND COMMUNICATION

- RS485/RS232 serial ports for communication via ModBus RTU protocol, ASCII bidirectional 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).
- 12 groups selection by 5 setpoint via external selector switch or contact (option on request).

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;
 - intelligent junction box or other multichannel instruments: allow the use of advanced functions as digital equalization, load distribution analysis and automatic diagnostics.
- 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).
- Direct connection between RS485 and RS232 without converter.
- Hysteresis and setpoint value setting.
- Weight value printing with date and time via keyboard or external contact.
- The iANiAatoGcoUBPUSeORS KON mote display with setpoint.



W100 WEIGHT INDICATOR FOR LOCAL PANEL



CERTIFICATIONS

OIML	OIML R76:2006, class III, 3x10000 divisions, 0.2 μ V/VSI / OIML R61 - WELMEC Guide 8.8:2011 (MID)	
	CERTIFICATIONS ON REQUEST	
М	Initial verification in combination with Laumas weighing module Support for metric label (dimensions: 124x77x1.5 mm)	
c AL us	UL Recognized component - Complies with the United States and Canada standards Richiedere offerta	
ERC	Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan) Richiedere offerta	
NM TRADE	NMI Trade Approved - Complies with the Australian standards for legal use with third parties	Richiedere offerta

OPTIONS ON REQUEST



Optoisolated 16 bit **analog output**. → One input and one output not available.

TECHNICAL FEATURES

Power supply and consumption		12÷24 VDC ±10%; 5 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 (1600000 points) - 4.8 kHz
Divisions (with measurement range $\pm 10 \text{ mV}$ 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 outputs	5/4 - max 30 VAC, 60 VDC/150 mA
c AL us	Working temperature	-20 °C +50 °C
	Device cumply device mericad "I DC" (limited perver course)	** "Class O"

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	0.2 µV/VSI
Working temperature	-10 °C +40 °C