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BASE	R76 - R61	• • • •	W200
LOAD	R76 - R61	• • • •	W200-C
UNLOAD	R76 - R61	• • • •	W200-S
3 PRODUCTS	R76 - R61	• • • •	W200-3
* 6 PRODUCTS	R76 - R61	• • • •	W200-6
* 14 PRODUCTS	R76 - R61		W200-14
Multiprogram	R76 - R61		W200-MU
★ External 8-relay modules included			

**CERTIFICATIONS** 



OIML R76:2006, class III, 3x10000 divisions,  $0.2 \mu V/VSI$  / OIML R61 - WELMEC Guide 8.8:2011 (MID)

ON REQUEST

**CERTIFICATIONS ON REQUEST** 

M Initial verification in combination with Laumas weighing module

UL Recognized component - Complies with the United States and Canada standards

[#[ Complies with the Eurasian Custom Union standards

NMI Trade Approved - Complies with the Australian standards for legal use with third parties

#### **FIELDBUSES**

MODBUS RTU MODBUS/TCP













# W200

#### **WEIGHT INDICATOR - WEIGHING AND BATCHING**



#### **DESCRIPTION**

- Weight indicator in DIN box suitable for front panel mounting (dimensions: 96x96x130 mm; drilling template: 92x92 mm).
- 6-digit semi-alphanumeric red LED display (14 mm height).
- 8 signalling LED.
- 5-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

Hysteresis and setpoint value setting.

contact (option on request).

Batching resume after a blackout.

Precision batching through slow function.

Precision batching through tapping function.

Batching start via external contact or keyboard.

**BATCHING PROGRAM** 

99 settable formulas.

Automatic fall calculation.

Tolerance error control.

Consumption storage.

Printing of batching data.

Alarm contact management.

contact (option on request).

- RS485/RS232 serial ports for communication via protocols ModBus RTU, ASCII Laumas 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.

**BASE PROGRAM** 

Current or voltage 16 bit optoisolated analog output (option on request).

The indicator can be used as a remote display with setpoints.

12 groups selection by 5 setpoint via external selector switch or

Selection of the first 12 formulas via external selector switch or

#### MAIN FUNCTIONS

- - PLC via analog output (on request);
  - up to 32 without line repeaters);
  - remote display and printer via RS485/RS232;
  - up to 8 load cells in parallel by junction box;
- the use of advanced functions as digital equalization, load distribution analysis and automatic diagnostics.
- 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.
- Direct connection between RS485 and RS232 without converter.
- contact.
- TCP/IP WEB APP
  - Integrated software in combination with the Ethernet TCP/IP option for remote supervision, management and control of the instrument.

# Only for:

#### LOAD and 3/6/14 PRODUCTS programs

Autotare at batching start.

#### UNLOAD program

- Automatic loading of the product into the weighed structure.
- Management of batching with big bags.

#### 3/6/14 PRODUCTS program

Formulas programming in fixed or variable steps.

#### MULTIPROGRAM

The Multiprogram instruments do not have any selected program but can be set by the installer with different operating modes: BASE, LOAD, UNLOAD, 3 PRODUCTS, 6 PRODUCTS, 14 PRODUCTS.

- Connections to:
- PC/PLC via RS485/RS232 (up to 99 instruments with line repeaters,

- intelligent junction box or other multichannel instruments: allow
- Digital filter to reduce the effects of weight oscillation.
- Theoretical calibration (via keyboard) and real calibration (with sample

- Displaying of the maximum weight value reached (peak).

CE-M version: 2014/31/EU-EN45501:2015-OIML R76:2006

via software (password), hardware or fieldbus.

Weight subdivisions displaying (1/10 e).

- Weight value printing with date and time via keyboard or external

multi-interval.

Calibration.

Net weight zero tracking.

code (aliby memory).

Alibi memory (option on request).

System parameters management protected by qualified access

Three operation mode: single interval or multiple ranges or

The following values can be printed via keyboard or external contact: gross weight, net weight, tare, preset tare, date, time, ID

## **WEIGHT INDICATOR - WEIGHING AND BATCHING**

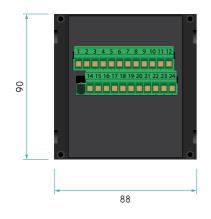


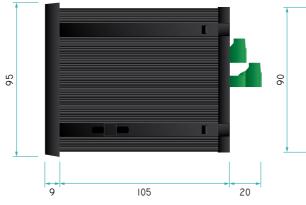
#### **TECHNICAL FEATURES**

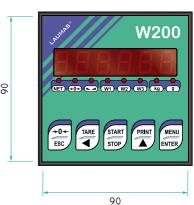
Power supply and consumption	12÷24 VDC ±10%; 5 W (on request: 115÷230 VAC; 50÷60 Hz; 6 VA)
Number of load cells • Load cells supply	up to 8 (350 Ω) - 4/6 wires • 5 VDC/120 mA
Linearity • Analog output linearity	<0.01% full scale • <0.01% full scale
Thermal drift • Analog output thermal drift	<0.0005% 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) 16 bit = 65535 divisions. 0÷20 mA; 4÷20 mA (up to 300 Ω)
Optoisolated analog output (option on request)	$0 \div 10 \text{ V}; \ 0 \div 5 \text{ V}; \ \pm 10 \text{ V}; \ \pm 5 \text{ V} \ (\text{min } 10 \text{ k}\Omega)$
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
Working temperature	-20 °C +50 °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	0.2 μV/VSI
Working temperature	-10 °C +40 °C







### **WEIGHT INDICATOR - WEIGHING AND BATCHING**



OPZW96X96IP65
B C S 3P 6P 14P

#### OPTIONS ON REQUEST AND COMPATIBILITY WITH BATCHING PROGRAMS

	POWER SUPPLY	CODE
<b>4</b> 115/230 VAC	Power supply 115/230 VAC; 50/60 Hz; 6 VA.  → Not compatible with fieldbuses and USB port.	B C S 3P 6P 14P

#### **ACCESSORIES**

IP65 panel sealing gasket.
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		• • • • •
	INTERFACES AND FIELDBUSES	
ANALOG OUTPUT	Optoisolated 16 bit <b>analog output</b> .  → One input and one output not available.	* OPZW1ANALOGICA B C S 3P 6P 14P • • • • • •
RS485 <sup>+</sup>	Additional RS485 port.  → One input and one output not available.  → Not compatible with E/EC option.	* OPZW1RS485 B C S 3P 6P 14P
CANOPER	CANopen protocol.  → Not compatible with 115 VAC and 230 VAC.	* OPZW1CAW200  B C S 3P 6P 14P  •
DeviceNet	DeviceNet protocol.  → Not compatible with 115 VAC and 230 VAC.	* OPZW1DEW200  B C S 3P 6P 14P  •
<b>PROFT</b>	Profibus DP protocol.  → Not compatible with 115 VAC and 230 VAC.	* OPZW1PRW200 B C S 3P 6P 14P
EtherNet/IP	Ethernet/IP protocol - Ethernet port.  → Not compatible with 115 VAC and 230 VAC.	* OPZW1ETIPW200  B C S 3P 6P 14P  •
ETHERNET TCP/IP	Ethernet TCP/IP protocol - Ethernet port. Integrated software for remote supervision, management and control of the instrument.  Not compatible with 115 VAC and 230 VAC.	* OPZW1ETTCPW200 B C S 3P 6P 14P
MODBUS/TCP	Modbus/TCP protocol - Ethernet port.  → Not compatible with 115 VAC and 230 VAC.	* OPZW1MBTCPW200 B C S 3P 6P 14P
PICOLOGICA	Profinet IO protocol - Ethernet port.  → Not compatible with 115 VAC and 230 VAC.	* OPZW1PNETIOW200 B C S 3P 6P 14P •
	USB port for data storage to pen drive (included). These data (weighed values, batchings, alarms) can be imported and processed on the PC	OPZWUSBW200

 $\qquad \qquad \textbf{* Select one option among those marked with an asterisk.}$ 

using the PROG-DB software included in the supply.

Not compatible with 115 VAC and 230 VAC.

B C S 3P 6P 14P

# **W200**

## **WEIGHT INDICATOR - WEIGHING AND BATCHING**



#### OPTIONS ON REQUEST AND COMPATIBILITY WITH BATCHING PROGRAMS

		CODE
21	USB male/female extension cable with IP68 sealed panel connector; lenght: 50 cm, sealing cap and cover included.	OPZWCONUSBIP68  B C S 3P 6P 14P
9	Ethernet male/female extension cable with IP68 sealed panel connector; lenght: 50 cm, sealing cap included.	OPZWCONETHEIP68  B C S 3P 6P 14P
	Ethernet male/male extension cable with IP68 sealed connector; lenght: 5 m, to be used in combination with the OPZWCONETHEIP68 option.	OPZWCONETHE5MT  B C S 3P 6P 14P
0-10	Weight reading from 0-10 VDC input (15 k $\Omega$ ).	OPZWING010 B C S 3P 6P 14P
A-20	Weight reading from 4-20 mA input (120 $\Omega$ ).	OPZWING420 B C S 3P 6P 14P • • • • • •

#### **EXPANSIONS**

	EXPANSIONS	
0-0	Base: 12 groups selection by 5 setpoint via external selector switch. Load, Unload, 3/6/14 Products: selection of the first 12 formulas vi external selector switch.	
	Base: 12 groups selection by 5 setpoint via external contact. Load, Unload, 3/6/14 Products: selection of the first 12 formulas vi external contact.	* E ia B C S 3P 6P 14P
ANALOG OUTPUT	Simultaneous use of E/EC option with the analog output.	OPZWAEC B C S 3P 6P 14P
	External 5-relay module to increase the capacity of SPDT contacts to 115 VAC/2 A.	B C S 3P 6P 14P
	External 8-relay module to manage from 1 to 6 products; 8 relays up to max 115 VAC/2 A.  Module included with models 6/14 PRODUCTS.  12÷24 VD0 115 VAC 230 VAC	C RELE6PROD115V

<sup>\*</sup> Select one option among those marked with an asterisk.

# **W200**

### **WEIGHT INDICATOR - WEIGHING AND BATCHING**



#### OPTIONS ON REQUEST AND COMPATIBILITY WITH BATCHING PROGRAMS

CODE



External 8-relay module to manage from 7 to 14 products to be added to RELE6PROD module; 8 relays up to max 115 VAC/2 A. Module included with model 14 PRODUCTS.

RELE14PROD

B C S 3P 6P 14P

#### **APPLICATIONS - SOFTWARE**

	APPLICATIONS - SUFTWARE	
FORM	Formulas setting in percentage.	OPZWFORPERC  B C S 3P 6P 14P  • • •
	Setting a quantity to be batched greater than the scale capacity with automatic calculation of cycles.  Not available for CE-M approved version.	OPZWQMC  B C S 3P 6P 14P  - • - • • •
	Intermediate unloadings during the batching.  Not available for CE-M approved version.	OPZWSCARI  B C S 3P 6P 14P  • • •
	Partial unloadings at cycle end.  Not available for CE-M approved version.	OPZWSCARP  B C S 3P 6P 14P  • • •
<del>Car</del>	Alibi memory.	OPZWALIBI B C S 3P 6P 14P • • • • • •
	Data transfer from the instrument to the PC, via RS232 (directly) or RS485 (by converter) serial port. These data (weighed values, batchings, 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  B C S 3P 6P 14P
125456 kg 123234 kg 155423 kg	Manual batching with remote displays connected in parallel to the instrument via RS485 serial port; allows to display on different remote displays the following batching information: formula and product number, remaining quantity to be batched, gross weight.	OPZWLAUMAN  B C S 3P 6P 14P  - • • • • •

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