

# WDESK L - WINOX L

## WEIGHT INDICATOR FOR PLATFORMS

# STAD



FIELDBUSES

**MODBUS RTU**



WDESK-L



WINOX-L

### CERTIFICATIONS



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

CERTIFICATIONS ON REQUEST



Initial verification (Legal Metrology)



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



Complies with the Eurasian Custom Union standards (Russia, Belarus, Kazakhstan)



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

### DESCRIPTION

- ABS weight indicator, desk version with 6 PG9 cable glands.
- Different instrument versions for different kinds of connections: cable glands, D-SUB connectors, removable terminal.
- Wall, column and panel mounting.
- Six-digit backlit LCD semialphanumeric display (20 mm height), 7 segment - 46 indicator symbols.
- Six-key membrane keyboard with buzzer.
- IP67 protection rating (IP68 WINOX-L).
- Real-time clock/Calendar with buffer battery.
- Stabilized power supply included in the desk version.

### INPUT/OUTPUT AND FIELDBUSES

- RS485/RS232 serial ports for communication via ModBus RTU protocol, ASCII bidirectional or continuous one way transmission.
- 5 relay digital 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 input.
- Current or voltage 16 bit analog output (option on request).
- Wifi module (on request: OPZW1RADIO).
- Selector switch for formulas/ groups selection (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 8/16 load cells in parallel by junction box.
  - intelligent junction box or to other Multichannel instruments: allows to have same benefits and performance of an advanced digital weighing system even using analog load cells. RS485 or RS232 connection via instrument serial port (if necessary, an optional RS485 port shall be added).
- 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).
- Direct connection between RS485 and RS232 without converter.
- Hysteresis and setpoint value setting.
- Weight print via keyboard or external contact with date and ti

### BASE PROGRAM

- 12 groups selection by 5 setpoint from selector switch or contacts (option on request).
- Counting.
- Totalizing.

### TECHNICAL FEATURES

Power supply and consumption	12÷24 VDC ±10%; 6 W (on request P version: 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 • Linearity of the analog output	<0.01% full scale • <0.01% full scale	
Thermal drift • Thermal drift of the analog output	<0.0005% full scale/°C • <0.003% full scale/°C	
A/D Converter	24 bit (16000000 points) - 4.8 kHz	
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 logic outputs	n. 5 - 115 VAC/150 mA	
Optoisolated logic inputs	n. 3 - 5÷24 VDC PNP	
Serial ports	RS485, RS232	
Baud rate	2400, 4800, 9600, 19200, 38400, 115200 (bit/s)	
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÷10 V; -5÷5 V (min. 10 kΩ)	
Humidity (condensate free)	85%	
Storage temperature	-30°C +80°C	
Working temperature	-20°C +60°C	
	Relay digital outputs	n. 5 - 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
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