W200 digital loadmeter

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A panel mounted digital load meter that is ideal for industrial force measurement and weighing systems. With a square format front panel that features a bright easy to read 5½ digit red LED display and comfortably sized buttons. Additionally the W200 has multiple relay outputs and logic inputs for connection to industrial control systems and panel switches. Versions are available with a wide range of communications options for CANopen, DeviceNet, Profibus DP, Modbus, Ethernet, Profinet IO.

Models:

W200 [W200 digital loadmeter]

W200-ANA [W200 with analogue output option]

W200-VAC [W200 with 115/230Vac mains supply option]

W200-ANA-VAC [W200 with both analogue output and mains supply options]

Features

- ✔ 14mm high 5½ digit red LED display
- ✔ Precision 24-bit A/D converter
- ✔ 12/24Vdc or 115/230Vac options
- ✔ Analogue output options for mA and V
- ✔ Linearisation, to correct for sensor non-linearity

Specifications

Parameter	Value	Unit
Supply voltage (W200-VAC)	115 or 230	Vac
Supply voltage (W200)	10 to 26	Vdc
Supply current	250	mA
Operating temperature	-20 to 60	°C
Storage temperature	-30 to +80	°C
Dimensions	96x96x130	mm
Dimensions (drilling template)	92x92	mm
Display	14mm high 5½ digit red LED display	
Measuring A/D converter	24	bit
Conversion rate	Up to 300 readings	per second
Thermal stability	0.0005% full scale	°C
Non-linearity	0.01% of full scale	
Loadcell input	4 wire and 6 wire with remote sensing	
Excitation supply	5 ±0.1	V
Bridge resistance range	85 to 5000	Ω
Sensitivity range	0.5 to 7.0	mV/V
Analogue output A/D converter (with ANA option installed)	16	bit
Analogue output non-linearity	0.01% of full range	
Analogue output thermal stability	0.003% full scale	°C
Analogue output options	0mA to 20mA, 4mA to 20mA, 0V to 5V, 0V to 10V, ±5V, ±10V	
Maximum current loop resistance	300	Ω
Minimum voltage output load resistance	10k	Ω
Digital inputs	3 optoisolated 5-24Vdc (2 with ANA option installed)	
Relay outputs	5 rated at 115Vac, 150mA (4 with ANA option installed)	
Communications	RS485 serial port, ModBus RTU, ASCII	

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