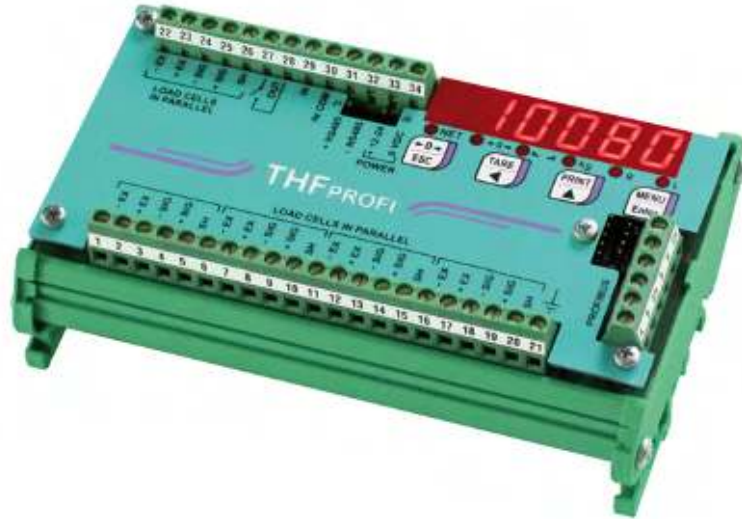




MODBUS RTU



DESCRIPTION

- Weight transmitter suitable for back panel mounting on Omega/DIN rail or junction box (on request).
- Dimensions: 148x92x50 mm.
- 6-digit semi-alphanumeric red LED display (11 mm height).
- 6 signalling LED.
- 4-key keyboard.

INPUTS/OUTPUTS AND COMMUNICATION

- Serial port with Profibus DP protocol.
- RS485 serial port for communication via protocols ModBus RTU, ASCII Laumas or continuous one way transmission.
- 1 relay output controlled by the setpoint values or via protocols.
- 1 optoisolated PNP digital input: status reading via serial communication protocols.
- 5 load cell dedicated inputs.

MAIN FUNCTIONS

- Connections to:
 - PLC via Profibus DP protocol (up to 126 instruments with line repeaters, up to 32 without line repeaters);
 - PC/PLC via RS485 (up to 99 instruments with line repeaters, up to 32 without line repeaters);
 - remote display via RS485;
 - up to 8 load cells in parallel by junction box.
- 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.

CERTIFICATIONS




UL Recognized component - Complies with United States and Canada standards






Complies with the Eurasian Customs Union standards

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/240 mA	
Linearity	<0.01% full scale	
Thermal drift	<0.0005% 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	1 - max 115 VAC/150 mA	
Optoisolated digital inputs	1 - 5÷24 VDC PNP	
Serial ports	RS485	
Baud rate	2400, 4800, 9600, 19200, 38400, 115200 (bit/s)	
Profibus DP port: baud rate • addresses	up to 12 (Mbit/s) • 1÷125	
Humidity (condensate free)	85%	
Storage temperature	-30 °C +80 °C	
Working temperature	-20 °C +60 °C	
	Relay outputs	1 - max 30 VAC, 60 VDC/150 mA
	Working temperature	-20 °C +60 °C
	Equipment to be powered by 12-24 VDC LPS or Class 2 power source	

OPTIONS ON REQUEST

	DESCRIPTION	CODE
	IP67 polycarbonate box; dimensions: 170x140x95 mm (four fixing holes Ø4 mm; centre distance: 152x122 mm)	
	- transparent lid - transparent lid; 4+2 M16x1.5 cable glands - plugs - transparent lid; 4+2 PVC end-fittings for sheath	CASTL CASTLPG9 CASTLGUA
	- external keyboard - external keyboard; 4+2 M16x1.5 cable glands - plugs - external keyboard; 4+2 PVC end-fittings for sheath	CASTLTAST CASTLTASTPG9 CASTLTASTGUA
	ATEX II 3GD (zone 2-22) version - external keyboard; 4+2 M16x1.5 cable glands - plugs	CASTLTASTATEX