



Short Description



- Weight transmitter and indicator for Omega/DIN rail mounting
- 8 independent reading channels for load cells
- Suitable for back panel or junction box
- Backlit graphic LCD display, transmissive STN, white on blue
- Five-key keyboard, including TEST key for direct access to diagnostic functions
- Removable screw terminal blocks
- The T2 Transmitter can be configured and managed, using the free "Instrument Manager" PC software, which you can download from our website

Available Models

Series	Full Article Description	Part Number
T2-8 Channel	Top-Sensors T2-8 weight transmitter analog/dig DIN rail	80030020
	Top-Sensors T2-8 weight transmitter Profinet	80030030
	Top-Sensors T2-8 weight transmitter CANopen	80030040
	Top-Sensors T2-8 weight transmitter Profibus	80030050
	Top-Sensors T2-8 weight transmitter Powerlink	80030060
	Top-Sensors T2-8 weight transmitter ETHERCAT	80030070
	Top-Sensors T2-8 weight transmitter Ethernet TCP/IP	80030080

Standard Specifications T2-8C 8-Channel Weight Transmitter

0.2 $\mu\text{V}/\text{VSI}$, 10.000 divisions range

0.01 $\mu\text{V}/\text{VSI}$, 1.000.000 divisions range (for internal use)

Opto-isolated 16-bit analog output (4 – 20mA (max 300 ohm), 0 – 20mA, 0 – 10V, 0 – 5V (minimum 10 kOhm))

Serial port RS485 for connection to PC/PLC by ASCII or Modbus RTU

Optional protocols: DeviceNet, CC-Link, Modbus/TCP, POWERLINK and SERCOS III on request

Optional connection USB through converter

5 Relay logic outputs controlled by the setpoint values or via protocols

3 opto-isolated PNP logic inputs: status reading via serial communication protocols

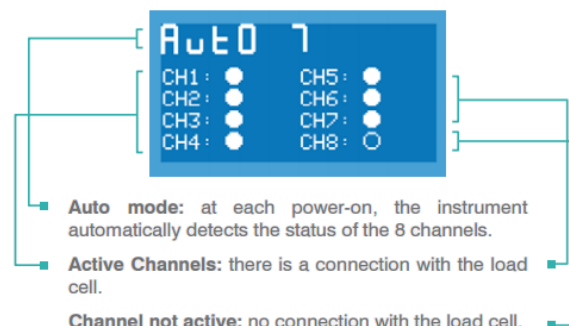
Technical Specifications

Power Supply	V_{DC}	12 ~ 24 $\pm$ 10%
Power Consumption	W	5
Number of Load Cells in Parallel (350 Ω)	Max	16, 4/6 wires
Load Cell Power Supply	V_{DC} / mA	5 / 240
Linearity and Linearity of the Analog Output	%FS	< 0.01
Thermal Drift	%FS/ $^{\circ}\text{C}$	< 0.0005
Thermal Drift of the Analog Output	%FS/ $^{\circ}\text{C}$	< 0.003
A/D Converter (80Hz)	Bit	24 (ca 16.000.000 points)
Max Divisions (with measure range: $\pm$ 10mV, sensitivity 2mV/V)	mV	$\pm$ 999999
Measurement Range	mV	$\pm$ 39
Maximum Load Cells Sensitivity	mV/V	$\pm$ 7
Maximum Conversions per Second	conversions/sec.	600
Display Range		- 999999 ; + 999999
Decimals		0 – 4
Display Increments		$\times$ 1, $\times$ 2, $\times$ 5, $\times$ 10, $\times$ 20, $\times$ 50, $\times$ 100
Digital Filter / Conversion Rate	Hz	21 levels; 5 – 600
Logic Relay Outputs N.5	VAC / mA	Max. 115 / 150
Logic Inputs N.3 – Opto-isolated	V_{DC} PNP	5 ~ 24
Serial Port (ASCII or Modbus RTU)		RS485
Baud Rate	Bits / s	2400, 4800, 9600, 19200, 38400, 115200
Opto-isolated Analog Output	Bit / divisions	16 / 65535
Maximum Humidity (non-condensing)	%	85 @ 20 $^{\circ}\text{C}$
Storage Temperature Range	$^{\circ}\text{C}$	-30 ~ +80
Working Temperature Range	$^{\circ}\text{C}$	-20 ~ +60
Dimensions (L x H x W)	mm	148 $\times$ 60 $\times$ 92
Weight	kg	0.25

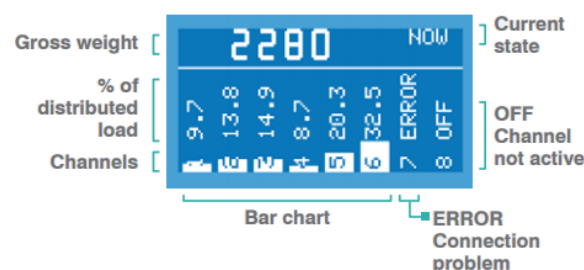
Display

8 independent channels

The screen shows the automatic standard operating mode and the activation/deactivation status of the individual channels to indicate the presence/absence of a connection with a load cell.



The T2 8-Channel transmitter displays graphically what the current distribution on each of the active channels is.



The T2 8-Channel transmitter displays graphically what the load cells response signal in mV for every active channel is.



Available Accessories

T2-8 Transmitter Enclosure • IP67 Polycarbonate Box • Cable glands: 8 + 3 M16 x 1.5 (PG9) • Comes with pre-mounted DIN rail and transparent cover • Dimensions 188 x 188 x 130 mm	
T2-8 Transmitter Enclosure with Keypad • IP67 Polycarbonate Box • Includes Keypad in Cover • Cable glands: 8 + 3 M16 x 1.5 (PG9) • Comes with pre-mounted DIN rail and transparent cover • Dimensions 188 x 188 x 130 mm	
Top Sensors RD-1 Remote Display • Remote display with large digits display, suitable for wall mounting • 6-digit semi-alphanumeric red LED display (90 mm height) • Aluminium profile case • IP30 Ingress Protection rating	
USB to RS485 Converter Cable • Connects devices with RS485 terminal board to a USB port • 2 LEDs indicate the active reception / transmission status • Maximum current: 250 mA • Cable length: 180 cm	
Top-Sensors Plug Pack 24VDC, EU 'bare ends' • 115-230VAC to 24VDC Power supply • Maximum output current: 1500 mA • Cable length: 180 cm • Wires have bare ends to connect to T2-8C and other Top Sensors transmitters	