

Pressure Temperature Measuring Terminal DTMT-101

Specification

Technical base

- Measuring computer ZILA 15
- Dual-channel Measuring and Loggerfunction

Pressure measuring

- Measuring of relative pressure in a custom-designed range with pressure sensor Type ZS30 - xxx bar
- measuring resolution: $\pm 1,5 \% \text{ FS } (-10^{\circ}\text{C} - 125^{\circ}\text{C})$
Class 0,5 of RT
-
- possible measuring ranges: 0,5 bar to 4000 bar
- Media connection custom-designed (standard is G 1/4")

Temperature measuring

- Measuring of temperature in a range from -50°C to $+80^{\circ}\text{C}$ by means of semiconductor sensor TS-100
- measuring resolution $\pm 1,0 \text{ K}$
- nonvolatile test-values memory

Software:

- Display of MAX-, MIN - values of measuring
- Display of the current values according to predefined cycle time
- Cycle time configurable between 0,5 to 10 minutes, Data logger function
- Real time clock to set time marks
- Memory for max. 15 000 measuring values
- several measuring series are possible
Display of memory contents in percent
- Data transmission to PC with the supplied cable over standard RS232 interface by means of ZILA-PC-Communicator Software
- graphical evaluation of measuring values with PC standard software (WORKS, EXCEL..)

DTMT-101



Applications

- Pressure monitoring with media resistant pressure sensors for liquids or gases in connection with temperature monitoring

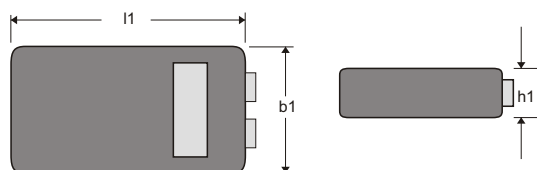
Examples:

- Water- and Gas-instalations
- Hydraulics, automotive applications
- Leakage measuring in pressure systems and pipes
- Medical applications

Technical Data

Dimensions

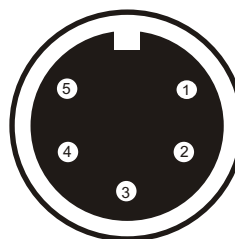
Lenght	l1	152 mm
Width	b1	83 mm
Height	h1	35 mm
Weight with battery		ca. 150 g
Shockproofed until		20 g
Humidity class		IP 40



Electronics

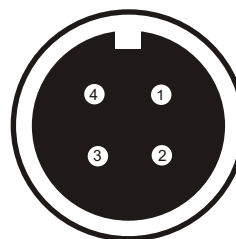
Power supply	9 V battery Alkali/Ma
Capacity	550 mAh
or	9 V battery Lithium
Capacity	1,1 Ah
Operating time with Lithium battery	ca. 60 hours
Supply possible with plug-in-adaptor 9 V / 0,1 A	
Operating temperature	0°C to +80°C
Storage temperature	-25°C to +90°C
Measuring resolution	12 bit
Sensor supply	5 V stab.
LCD-Sign Height	5 mm
Trigger level "Low Battery"	7,7 V
Keyboard	short-stroke keypad, 6 keys
Sensor connectors	2 round sockets
PC connector	round socket
Internal power supply	3V / 5V
LC Display	2 lines each 16 signs
Serial Interface	RS-232

Layout of pin connections



Pressure sensor

- 1 GND
- 2 Input analogue
- 3 Sensor code.
- 4 free
- 5 Sensor - supply



Temperature sensor

- 1 Sensor - supply
- 2 Input analogue
- 3 Sensor code.
- 4 GND

We reserve the right to make technical modifications