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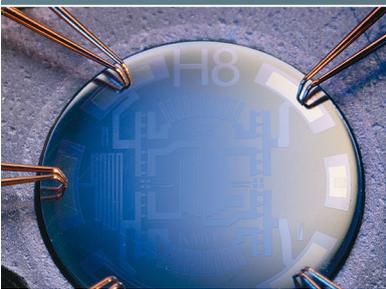
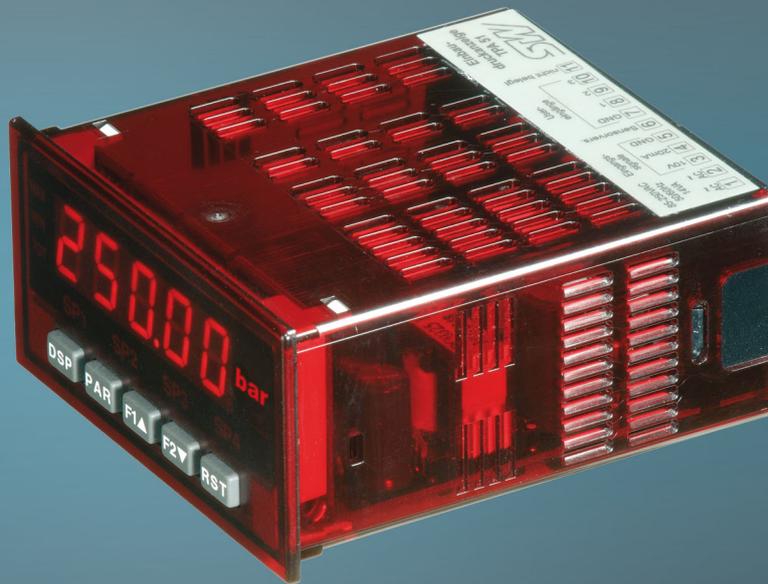


Sensor-Technik Wiedemann GmbH
Mobile Controllers and Measurement Technologies

TEC *Tect Electronics*
The authorized distributor in the Greater China Region

Pressure Panel Meter TPA 51

Pressure Panel Meter TPA 51



General Function

The standard version of the pressure panel meter TPA 51 is designed to display norm signals of 0/4-20 mA and 0 - 10 V. The display range and even the input signal may be quickly and simply selected with front side buttons. Optional cards (may be easily slot mounted at a later date by customer) provide the possibility to configure the meter with an integrated pressure switch, or RS-232 or RS-485 interfaces in addition to an analog output. With a resolution of 16 bit as well as a fast measurement time of 50 ms, the meter is flexibly suited for almost any application.



Characteristics

- Environmental protection IP 65
- Optional analog output 0/4-20 mA or 0-10 V
- Optional 2 or 4 limit switches
- Programmable switching hysteresis
- Illuminated filed display the unit
- Memory for min and max values, sum counter
- Configuration software for PC included

Ordering Code

Typ	Options	Supply
TPA 51	-sa (analog output)	230 V AC
	-GW2 (2 double-throw contact 5A)	24 V DC
	-GW4 (4 closer 3A)	
	-s2 (RS-232 Half-Duplex)	
	-s4 (RS485 Multipoint)	
	-st (Start-Pack)	

Technical specifications

Housing	panel mount version	96 x 48 x 104 mm with support frame
Panel cut-out	(w x h)	92 x 45 tol. +0.5 mm
Protection classification	front/rear	IP 65/IP 20
Operation Condition	Operating temperature	0 ... +50°C
	Storage temperature	-20 ... +60°C
	Rel. humidity	0 ... 85% non-condensing
Input	Current/Voltage	0/4-20 mA, 0-10 V
Accuracy	and resolution	0.03%, 16 bit
Reaction time		0.2 s for display of 99% final value
Display	7 segment	-19999 ... 99999
Sensor supply	short circuit protection	approx. 24 V, max. 50 mA
Supply voltage	AC	230 V, 50 Hz, approx. 18 VA
	DC	24 V ± 10%, max. 0.5 A
Linearization		max. 16 points
Mode selection		with buttons on front side
		with RS232-interface (if present, and using TPA 51 configuration software)
EMC		EN 61000-6-2 and EN 61000-6-3

Options

analog output -sa

- Programmable using buttons or RS232-interface
- Output signals: 0/4-20 mA or 0-10 V
- Accuracy: 0.17% (18-28°C) resp. 0.4% (0-50°C)
- Resolution: 1/3500
- Loading: voltage output: 10 k Ω
current output max. 500 Ω

2 limit switches -GW2

- 2 relays with double pole contacts
- Breakdown isolation: 2kV for 1 min compared to ground of sensor supply and to user inputs
- Contact rating: 5A, 120/240 VAC or 28 VDC
sum of the two relays - 5A
- Lifetime: min. 100,000 cycles at maximum loading

4 limit switches -GW4

- 4 relays with single closing contacts
- Breakdown isolation: 2.3kV for 1 min compared to ground of sensor supply and to user inputs
- Contact rating: 3A, 120/240 VAC or 28 VDC
sum of the four relays - 4A
- Lifetime: min. 100,000 cycles at maximum loading

RS232-interface -s2

- baud rate: 300, 600, 1200, 2400, 9600, 19200
- word length: 7 or 8 data bit
- Parity: no, even, odd
- Half-duplex

RS485-interface -s4

- Baud rate: 300, 600, 1200, 2400, 9600, 19200
- word length: 7 or 8 data bit
- Parity: no, even, odd
- Addresses: 0 ... 99
- Max. transmission distance: 130 m
- Max. number of devices on bus: 32
- Multipoint

Start-pack -st

- Consists of: RS232-interface -s2
Configuration software
Data cable (approx. 1.5 m)
- For programming of the pressure meter using a PC



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