

## TWO-WIRE PRESSURE TRANSMITTER (with Display)

**BPT50-A**

- For low-cost applications
- For gauge pressure
- Ranges from 0 to 500 bar
- 2-wire 4...20 mA output
- 4-digit loop-powered programmable LCD display
- 250 VAC/DC alarm relay output
- Optional serial interface
- Up to 1.0% accuracy
- Compact design

### GENERAL DESCRIPTION

The BPT50A pressure transmitter is a combination of a thin-film pressure sensor type BPT50 and a programmable loop-powered indicator. A 4-digit LCD display allows visualization of the measured pressure from -1999 to 9999 units with resolution of up to 6000 points and user programmable display scale limits very useful when different pressure engineering units are used. BPT50-A is also equipped with programmable pressure alarms (with or without pulse mode) driving a low-power electronic relay output which can also be used to activate various electric actuators for ON/OFF pressure control. The display limits, decimal point position, measurement offset value as well as many other parameters are fully programmable via a front panel keyboard.

Thanks to its excellent price-to-performance ratio as well as its compact design and optional serial interface, BPT50-A is a widely applicable device in low-budget pressure measuring and control applications



### TECHNICAL SPECIFICATIONS

<b>Process fluid</b>	: Liquid, gas or vapor
<b>Range</b>	: 0-min 2,5 to 0-500 bar
<b>Overload</b>	: 1,5 x full span
<b>Output signal</b>	: Two-wire, 4-20mA
<b>Output SSR</b>	: 0,2A/250VAC
<b>Output MOS gate</b>	: 0,12A/240VAC/DC (Isolated)
<b>Control algorithm</b>	: ON/OFF
<b>Alarms</b>	: Programmable
<b>Serial interface</b>	: RS232 (instead of relay output) option
<b>Power supply</b>	: 16 - 32 VDC
<b>Process temp</b>	: -30 to +85°C
<b>Sensortype</b>	: Thin film sensor
<b>Overpressure</b>	: 150%
<b>Display</b>	: 4 digit LCD 8mm
<b>Keyboard</b>	: 3 membrane keys

### PERFORMANCE

<b>Accuracy</b>	: 1% (display 0,1%)
<b>Repeatability</b>	: ±0.05%
<b>Response time</b>	: Better than 10 ms, 0-99%
<b>Mounting</b>	: No restriction
<b>EMC</b>	: EN 50081-1 & 2, EN 50082-2, 89/336/EEC



### INSTALLATION

<b>Electrical connection</b>	: Hirschmann DIN 43650 IP65
<b>Process connection</b>	: G1/4", M12, 7/16", 3/8" or specify
<b>Wetted parts</b>	: Stainless steel 1Cr18Ni9Ti
<b>Housing</b>	: Stainless steel
<b>Protection class</b>	: IP65
<b>Weight</b>	: 90 g
<b>Mounting</b>	: Directly supported by piping

### ORDER INFORMATION BPT50-A

RANGE	RELAY OUT	CONNECTION	OPTION
Z Specify	X None	Z Specify	X None
1 0-2,5 bar	D SSR	Q23 G1/4"	A RS232
2 0-4 bar	M Mos gate	Q32 M12	
3 0-6 bar		Q35 7/16"	
4 0-10 bar		Q36 3/8"	
5 0-16 bar			
6 0-25 bar			
7 0-40 bar			
8 0-100 bar			
9 0-250 bar			
10 0-400 bar			
11 0-500 bar			

### CONNECTION

