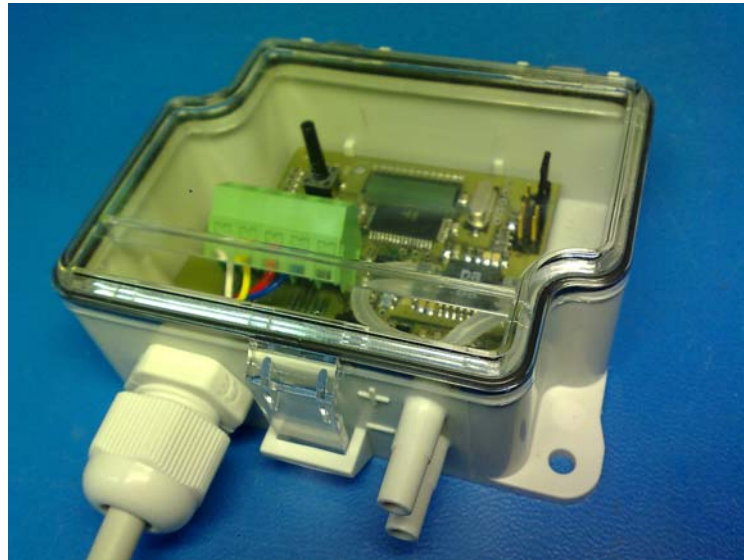


DIFFERENTIAL PRESSURE TRANSMITTER with MODBUS interface DPT-MOD



Summary

Each device is individually temperature compensated.

Type name	ranges	Accuracy %/FS -10...+50°C	Long term stability <i>typical 1 year</i>
DPT-MOD-2000	0...100/250/500/1000/2000	± 1,5% from highest range	≤ ± 8 Pa
DPT-MOD-5000	0...1000/2000/3000/5000	± 1,5% from highest range	≤ ± 24 Pa

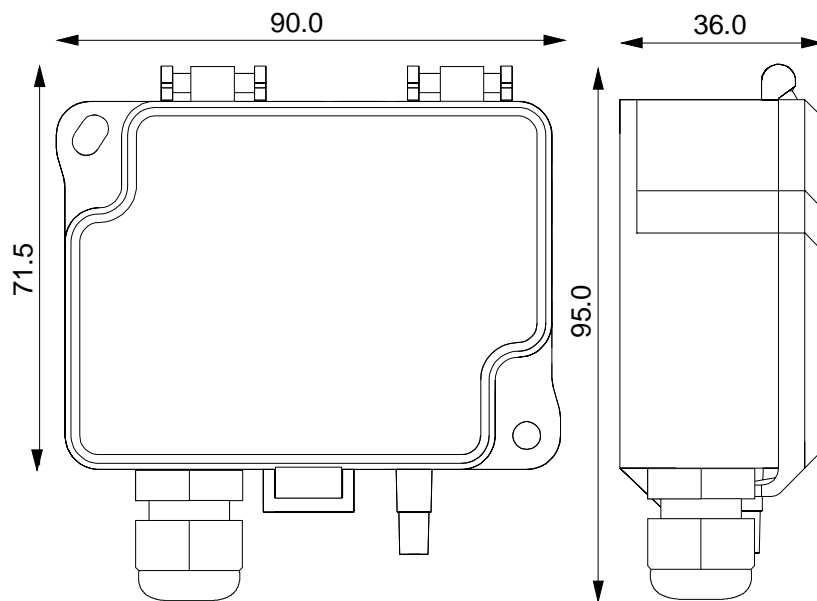
Modbus address

1...247 Selectable by jumper and push button. Please see the chapter installation.

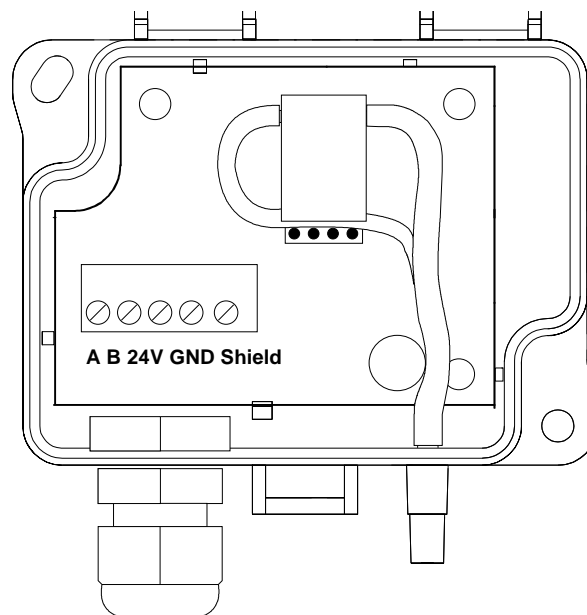
Technical data

Communication	MODBUS RTU, over RS485	
Response Time	0.8s / 2s / 10s	
Zeroing function	Access via MODBUS or by push button. Recommended every 12 months.	
Max. pressure	25 kPa	
Bursting pressure	50 kPa	
Suitable media	Air and non-aggressive gases	
Measuring element	Piezoresistive	
Electrical interface	Supply voltage	24 VDC
	Max. tolerance	± 10%
	Power consumption	< 1.0 W
	Output signal	via Modbus
Materials	Housing	ABS
	Cover	PC
	Pressure connections	ABS
Connections	Pressure connections	Male Ø 5,0 mm and 6,3 mm
	Cable entry	M16
Weight	150 grams, with accessories 290 grams	
Dimensions	90,0 x 71,5 x 36,0 mm	
General ambient conditions	Temperature range:	
	Operation	-10...+50°C (setting display 0°C...+50°C)
	Storage	-20...+70°C
	Ambient humidity	0 to 95% RH
Safety	Protection standard	IP54
	Conformance	Meets the requirements for CE marking: RoHS Directive: 2002/95/EC EMC Directive: 2004/108/EC WEEE Directive: 2002/96/EC

Dimensions



Installation Connection Diagramm



Settings

<p>1. SELECT DEVICE ADDRESS</p> <p> <input type="text" value="1"/> </p> <p> <input type="text" value="2"/></p> <p>...</p> <p> <input type="text" value="247"/></p> <p>2. SELECT BAUD RATE</p> <p> <input type="text" value="9600"/> </p> <p> <input type="text" value="1920"/></p> <p> <input type="text" value="3840"/></p>	<p>3. SELECT PRESSURE RANGE</p> <p> <input type="text" value="0.100 kPa"/> </p> <p> <input type="text" value="0.250 kPa"/></p> <p> <input type="text" value="0.500 kPa"/></p> <p> <input type="text" value="1.000 kPa"/></p> <p> <input type="text" value="2.000 kPa"/></p>	<p>4. SELECT RESPONSE TIME</p> <p> <input type="text" value="0.8"/> </p> <p> <input type="text" value="2.0"/></p> <p> <input type="text" value="1.0"/></p> <p>5. ZERO POINT CALIBRATION</p> <p> <input type="text" value="CAL"/> </p> <p>6. MEASURING STATE</p> <p> <input type="text" value="0.5 10 kPa"/> </p>
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Modbus functions

The device supports to the following functions and registers:

FUNCTION 04 - Read input Register

Register	Parameter Description	Data type	Value	Range
3x0001	Program version	16 bit	0...1000	0,00...99,00
3x0002	Pressure in Pascals	16 bit	0...2000	0...2000(Pa)

FUNCTION 05 - Write Single coil

Register	Parameter Description	Data type	Value	Range
0x0001	Zeroing function	Bit 0	On - Off	On - Off

To zeroing, write 1 to register 0x0001. The register 0x0001 state returns back to 0 automatically after zeroing.