

DIFFERENTIAL PRESSURE TRANSMITTERS FOR LIQUIDS

DPTL Series



The differential pressure transmitters for liquids are used for differential pressure detection in liquid mediums of the air-conditioning, heating and water technique. They are also suitable for light aggressive liquids.



MODEL SUMMARY

Description	Model	Product code	Measurement range (bar)
Differential pressure transmitter for liquids, voltage output	DPTL1/V	111.001.001	0...1 bar
Differential pressure transmitter for liquids, voltage output	DPTL2,5/V	111.002.001	0...2.5 bar
Differential pressure transmitter for liquids, voltage output	DPTL4/V	111.003.001	0...4 bar
Differential pressure transmitter for liquids, voltage output	DPTL6/V	111.004.001	0...6 bar
Differential pressure transmitter for liquids, current output	DPTL1/A	111.001.002	0...1 bar
Differential pressure transmitter for liquids, current output	DPTL2,5/A	111.002.002	0...2.5 bar
Differential pressure transmitter for liquids, current output	DPTL4/A	111.003.002	0...4 bar
Differential pressure transmitter for liquids, current output	DPTL6/A	111.004.002	0...6 bar

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SPECIFICATIONS

Performance

Accuracy (typ. %/FS):
±1 %
Static pressure maximum:
21 bar
Overpressure maximum:
Ranges 1 & 2.5 bar: 6 bar
Ranges 4 & 6 bar: 16 bar
Response time:
10 ms

Technical Specifications

Measuring units:
bar
Environment:
Ambient temperature: -10...50 °C
Temperature of medium: -10...80 °C
Storage temperature and moisture: -20...50 °C,
max 85 % rH

Physical

Material contacting the medium:
Ceramic/Stainless steel A203/1 4305
Sealing material:
EPDM
Electrical connector:
Angle plug according to DIN 43650 Construction A
Pressure connectors:
Inside thread G1/4"
Installation position:
Unrestricted
Enclosure:
Bottom part: Stainless steel 1,4305
Top cover: Aluminium pressure die casting
Weight:
510 g

Electrical

DPTL with current output:
Supply voltage: 15...24 VDC (±10 %)
Current consumption: max 20 mA
Output signal: 4...20 mA, max load 900 ohm / 24 VDC
DPTL with voltage output:
Supply voltage: 15...24 VDC (±10 %) or 24 VAC (±10 %)
Power consumption: typ. 0,37 W (VDC) / 0,9 W (VAC)
Output signal: 0...10 V, min load 2 kOhm

Conformance

Meets requirements for CE marking:
Electromagnetic compatibility 2004/108/EG
EMC:
Electrical equipment for measurement, control and laboratory use EMC requirements EN61326-1 (2006)
Particular requirements – test configuration, operational conditions and performance criteria for transducer with integrated or remote signal conditioning EN61326-2-3
Product safety:
Safety requirements for electrical equipment for measurement, control and laboratory use.