

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

DIFFERENTIAL PRESSURE TRANSMITTERS FOR LIQUIDS

DPTL Series

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 89/336/EEC

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