

## PRESSURE TRANSMITTERS FOR LIQUIDS PTL SERIES



PTL series pressure transmitters are used for pressure detection in liquids in heating and cooling systems.

PTL-Heat is used for pressure detection in non-condensing applications such as district heating or heat recovery systems, whereas PTL-Cool is designed for extreme conditions where condensation is a common problem. PTL-Cool has a two-layer protection for electronics. This is why the possible condensation does not harm the product.

PTL series products are also suitable for refrigerants and non-aggressive gases.



### APPLICATIONS

PTL-Heat series devices are commonly used in HVAC/R systems for:

- District heating
- Liquid heat exchangers
- Heating substation
- Air compressor systems

PTL-Cool series devices are commonly used in HVAC/R systems for:

- District cooling
- Fan coil units (FCU)
- Chilled beams

### MODEL SUMMARY

Description	Model	Product code	Measurement range (bar)
<b>PTL-Heat, for heating applications</b>			
Pressure transmitter for liquids, voltage output	PTL-Heat-4-V	112.001.001	0...4 bar
Pressure transmitter for liquids, voltage output	PTL-Heat-6-V	112.002.001	0...6 bar
Pressure transmitter for liquids, voltage output	PTL-Heat-10-V	112.003.001	0...10 bar
Pressure transmitter for liquids, voltage output	PTL-Heat-16-V	112.004.001	0...16 bar
Pressure transmitter for liquids, voltage output	PTL-Heat-25-V	112.005.001	0...25 bar
Pressure transmitter for liquids, current output	PTL-Heat-4-A	112.001.002	0...4 bar
Pressure transmitter for liquids, current output	PTL-Heat-6-A	112.002.002	0...6 bar
Pressure transmitter for liquids, current output	PTL-Heat-10-A	112.003.002	0...10 bar
Pressure transmitter for liquids, current output	PTL-Heat-16-A	112.004.002	0...16 bar
Pressure transmitter for liquids, current output	PTL-Heat-25-A	112.005.002	0...25 bar
<b>PTL-Cool, for cooling applications*</b>			
Pressure transmitter for liquids, voltage output	PTL-Cool-6-V	112.002.005	0...6 bar
Pressure transmitter for liquids, voltage output	PTL-Cool-10-V	112.003.004	0...10 bar
Pressure transmitter for liquids, current output	PTL-Cool-6-A	112.002.006	0...6 bar
Pressure transmitter for liquids, current output	PTL-Cool-10-A	112.003.005	0...10 bar

\*Other models available on request

# PRESSURE TRANSMITTERS FOR LIQUIDS

## PTL SERIES

### SPECIFICATIONS

#### Performance

**Accuracy (typ. %/FS):**  
(temperature: -20...85 °C)  
±1.0 %

**Overload range:**  
1.5 times full scale

**Bursting pressure:**  
3.0 times full scale

#### Technical Specifications

**Pressure type:**

relative pressure

**Measuring units:**

bar

**Environment:**

Ambient temperature:

PTL-Heat: 0...105 °C, non-condensing

PTL-Cool: -40...60 °C

Temperature of medium:

PTL-Heat 0...125 °C

PTL-Cool: -40...50 °C

#### Physical

**Measuring element:**

Ceramic sensing element

**Pressure connectors:**

pressure G1/4", coupling G1/4"-G1/2"

**Protection class:**

IP65

PTL-Heat: one-layer protection

PTL-Cool: two-layer protection against condensation

#### Electrical

**PTL with current output:**

Supply voltage: 10...30 VDC

Output signal: 4...20 mA, max load 800 ohm / 24 VDC

**PTL with voltage output:**

Supply voltage: 15...24 VDC / 24 VAC (±10 %)

Output signal: 0...10 V, min load 5 kOhm

#### Conformance

Meets requirements for CE marking:

EMC Directive 2014/30/EU

RoHS Directive 2011/65/EU

WEEE Directive 2012/19/EU

COMPANY WITH  
MANAGEMENT SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001 = ISO 14001 =



### HOW TO GENERATE A MODEL?

Example:	Product series			
PTL-Heat-4-V	PTL-Heat	Pressure transmitters for liquids, for heating applications		
		Measuring range (bar)		
		-4	0...4	
		-6	0...6	
		-10	0...10	
		-16	0...16	
		-25	0...25	
Model	PTL-Heat	-4	Output	
			-V	Voltage
			-A	Current

Example:	Product series			
PTL-Cool-6-V	PTL-Cool	Pressure transmitters for liquids, for cooling applications		
		Measuring range (bar)		
		-6	0...6	
		-10	0...10	
		Output		
		-V	Voltage	
		-A	Current	
Model	PTL-Cool	-6	-V	



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