akribis

DATA SHEET

PTL

Produal

Distributed by AKRIBIS



PTL pressure transmitter for liquids



The PTL transmitters measure liquid pressure in heating and cooling systems. They are designed for extreme conditions where condensation is a common problem. These transmitters have a two-layer protection for electronics to protect electronics from condensation problems. These transmitters are also suitable for refrigerants and non-aggressive gases.

The PTL transmitters have an analogue output signal for pressure measurement. The -V models have a voltage output (0...10 Vdc) and the -A models have a current output (4...20 mA).

The PTL liquid pressure transmitters are typically used in building automation systems for:

- district heating
- liquid heat exchangers
- heating subtraction
- air compressor systems
- district cooling
- fan coil units
- chilled beams

Technical specifications

Property	Value
Power supply	
-V models	15...30 Vdc / 24 Vac ±10 %, < 0.25 W
-A models	9...30 Vdc, < 0.25 W
Water pressure measurement	
Range	
-6 models	0...6 bar
-10 models	0...10 bar
-16 models	0...16 bar
Accuracy	
-6 models	±1 % of the full measurement range
-10 and -16 models	±0.5 % of the full measurement range
Proof pressure	150 % of the full measurement range

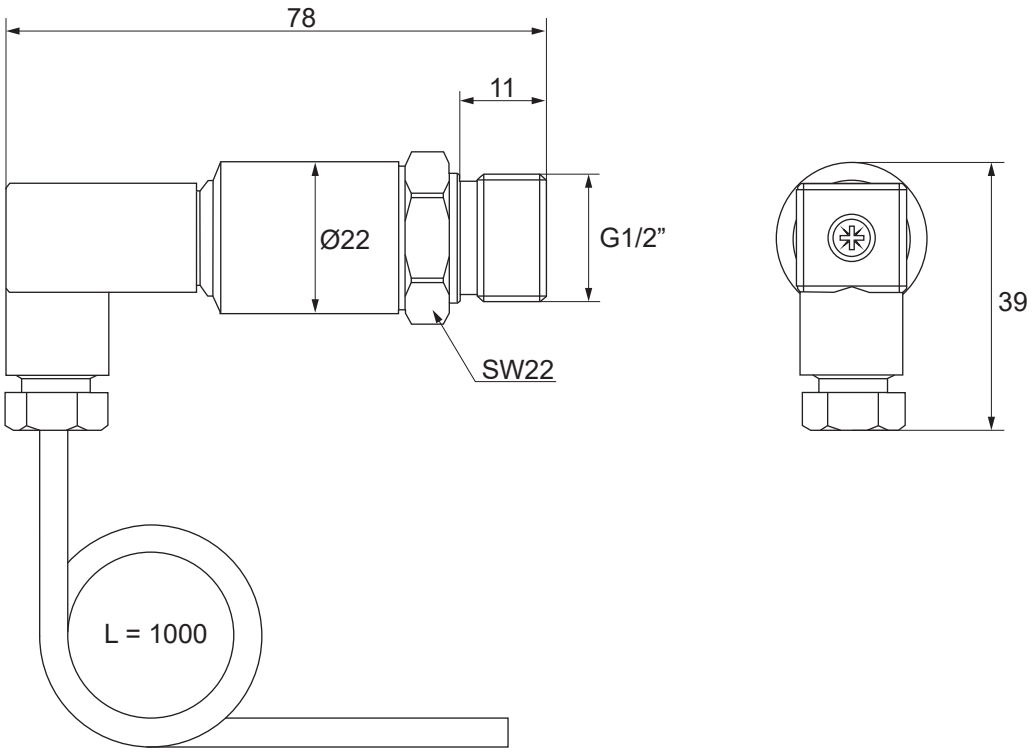
AKRIBIS · www.akribis.info · contacto@akribis.info

Property	Value
Burst pressure	200 % of the full measurement range
Analogue outputs	
Voltage output (-V models)	0...10 Vdc
Current output (-A models)	4...20 mA
Cable	
Type	
-V models	3 x 0.34 mm^2 (AWG 22) and shield
-A models	2 x 0.34 mm^2 (AWG 22) and shield
Connector	DIN 43650 type C
Length	1 m
Appliance class (IEC 60664-1)	III
Operating conditions	
Medium temperature	-40...125 °C
Ambient temperature	-20...100 °C
Ambient humidity	0...100 %rH
Storage conditions	
Storage temperature	-40...105 °C
Materials	Stainless steel
Protection class	IP65
Mounting	G1/2" thread
Dimensions (w x h x d)	39 x 22 x 78 mm
Warranty	2 years
CE UKCA	Refer to the EU Declaration of Conformity or the UK Declaration of Conformity for compliance information. You can find the declarations on this product's page at www.produal.com.
Company certificates	
Quality management	ISO 9001
Environmental management	ISO 14001

AKRIBIS · www.akribis.info · contacto@akribis.info

Dimensions

All dimensions are in millimeters (mm).



Wiring

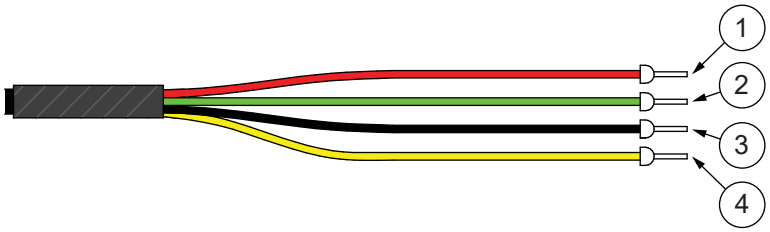
WARNING: Device wiring and commissioning can only be carried out by qualified professionals. Always make the device wirings in de-energised electricity network.

WARNING: This product is appliance class III product according to IEC 60664-1. The product may only be connected to SELV (separated extra low voltage) electricity network.

WARNING: Add an external fuse for supply voltage. The fuse rating depends on the connected devices in the SELV (safety extra low voltage) electricity network.

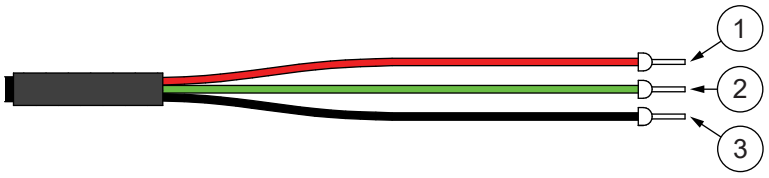
Important: This product cannot detect an abnormal condition of output port. External supervising (automated/human) can be necessary depending on the application where this product is used.

- In PTL-V models, connect the wires according to the following table:



1	Red	Power supply, 15...24 Vdc / 24 Vac
2	Green	Output, 0...10 Vdc
3	Black	GND
4	Yellow	Cable shield

- In PTL-A models, connect the wires according to the following table:



1	Red	Power supply, 10...30 Vdc
2	Green	Output, 4...20 mA
3	Black	Cable shield

Make sure that all device functions operate correctly after the wiring is complete and power supply is turned on.

Ordering information

You can use the ordering guide below to generate ordering information for products you would like to order. For example, the ordering information for a pressure transmitter with 0...10 bar range, 0...10 V output, and 1 meter cable is as follows:

Product type: *PTL-10-V-C1*
Product number: *11341B0A1A*

			Type	0	1	2	3	4	5	6
0	Pressure transmitters for liquids			1134	1		0		1	A
1	Device type	Pressure transmitter for liquids	PTL		1					
2	Range	6 bar	-6			A				
		10 bar	-10			B				
		16 bar	-16			C				
3	Reserved						0			
4	Output signal	0...10 Vdc	-V					A		
		4...20 mA	-A					B		
5	Cable length	1 m	-C1						1	
6	Reserved									A