

SUBMERSIBLE LEVEL TRANSMITTER

"Hydrostatic Liquid Level Measurement"

PTL 110





- Piezoresistive measurement principle
- Long-term stable operation
- EMC and Reverse Polarity protection
- 4-20 mA or 0-10 V analog output
- RS-485 Modbus output
- Different level measuring between 1 meter and 100 meters
- IP68 protection class
- High quality
- Reasonable price and economical solution

PTL 110 level pressure sensors with piezoresistive working principle; are used for level measurement in applications like streams, reservoirs, water tanks, fuels and oils etc.

With its stainless steel housing with IP68 protection class, it can work in harsh environments.

Thanks to the surge voltage and reverse polarity protection, the PTL 110 series are unaffected by electrical fluctuations and reverse connections.

Optionally configurable pressure ranges, analog output and mechanical connection options offer solutions suitable for various applications.

SAMPLE APPLICATION FIELDS

- Wells
- Water Tanks
- Lake Level
- River Level
- Reservoirs
- Oil and Fuel







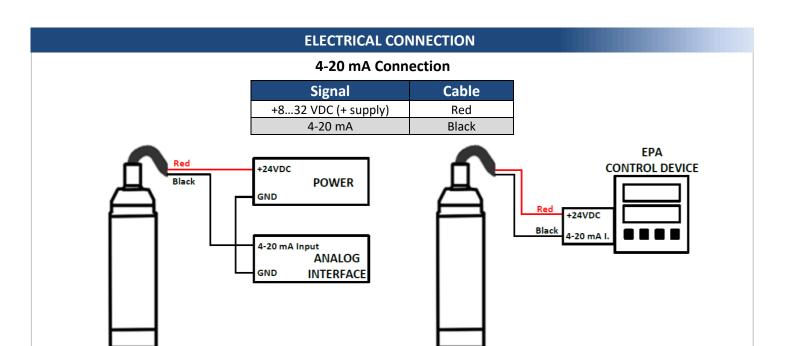


TECHNICAL SPECIFICATIONS

Measuring Range	Different models betw 25 bar can be selected			For Analog Output	3 x 0,22 mm ² PE cable or 3 x 0,35 mm ² PTFE cable Cable outer diameter: 7,5 ±0,2 mm
Measuring Principle	Piezoresistive		Electrical Connection	For RS-485 Output	4 x 0,14 mm2 PUR cable
Membrane	1.4404 (AISI 316L)				Cable outer diameter: 5,9 ±0,3 mm
O-Ring	NBR or Viton (FKM)			Drain pipe diameter: 2 mm	
Maximum Pressure	%200 FS			(Cable length according to level value)	
Accuracy	%0,2 @25°C		Operating Temperature	For model with PE cable: -20°C +70°C For model with PTFE cable: -40°C +85°C	
Electrical Interface EMC Protection	Output Signal	Supply Voltage	Storage Temperature	For model with PUR cable: -40°C +80°C	
	010 VDC (3 wire)	1230 VDC		For model with PE cable: -20°C +70°C For model with PTFE cable: -40°C +85°C	
	420 mA (2 wire)	832 VDC		For model with PUR cable: -40°C +80°C	
	DC 40F Madhus	10 20 VDC	Protection Class	IP68	
	RS-485 Modbus	1030 VDC	Material	Body: 1.4404 (AISI 316L stainless steel)	
	Emission: EN/IEC 61000-6-3		iviaterial	Cable: PE, PTFE or PUR	
	Immunity: EN/IEC 61000-6-2		Weight	~350 gr	

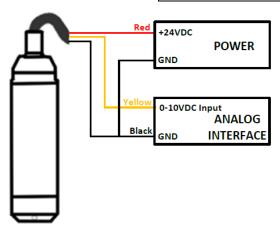
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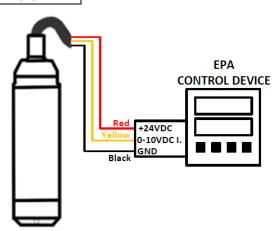
Communication Protocols	Modbus RTU, Default: Modbus RTU
Baud Rate	600, 1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600, 115200 Default: 9600
Parity	None, Odd, Even Default: None
Addres	Between 1 and 247 Default: 1



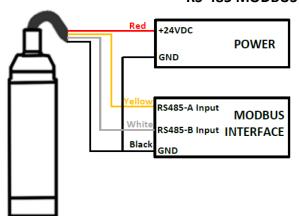
0-10 VDC Connection

Signal	Cable
+1230 VDC (+ supply)	Red
GND	Black
0-10 VDC	Yellow





RS-485 MODBUS Connection



Signal	Cable
+1030 VDC (+ supply)	Red
GND	Black
RS485 - A	Yellow
RS485 - B	White

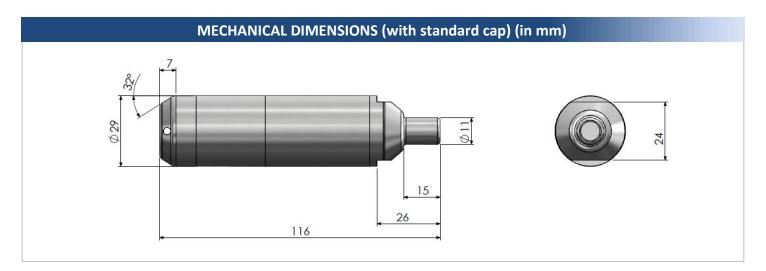


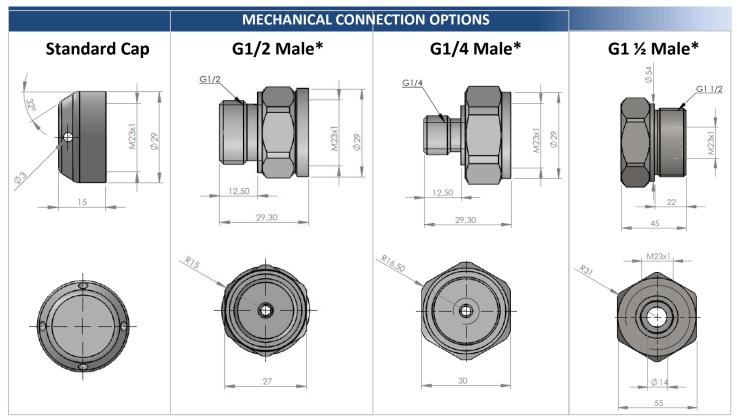
WARNING!

If the wick in the drain pipe is removed, the product will be out of warranty.



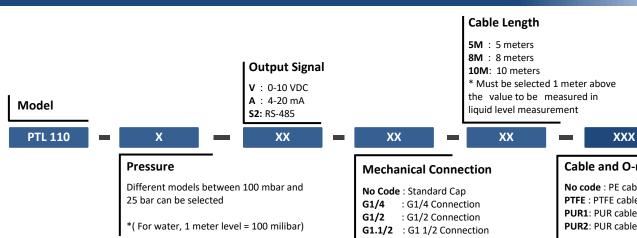
During the application, the product free submerge. Dams, rivers and streams of the product against a surge in applications should be suspended through the pipes. FLANGE FLANGE CLAMPS





Fittings marked with (*) are optional.

ORDER CODE



Cable and O-ring Type

No code: PE cable, NBR O-ring PTFE: PTFE cable, FKM O-ring PUR1: PUR cable, NBR O-ring PUR2: PUR cable, FKM O-ring

* When selecting the cable and O-ring, the application area should be taken into consideration, and the table below should be used as a reference.

**For products with RS-485 output, the cable type can only be selected as PUR.

Product	Housing	Cable Material	O-Ring	Applications
PTL 110	1.4404 (AISI 316L)	PE (Polyethylene), PUR (Polyurethane)	NBR	Wells, water tanks, lake level, river level, reservoirs, grey waters, waste waters
		PTFE (polytetraflorethylene), PUR (Polyurethane)	Viton (FKM)	Oils and fuels

Atek Elektronik Sensör Teknolojileri Sanayi ve Ticaret A.Ş.



Gebze OSB, 800. Sokak, No:814 Gebze/KOCAELi/TÜRKİYE







