



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

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

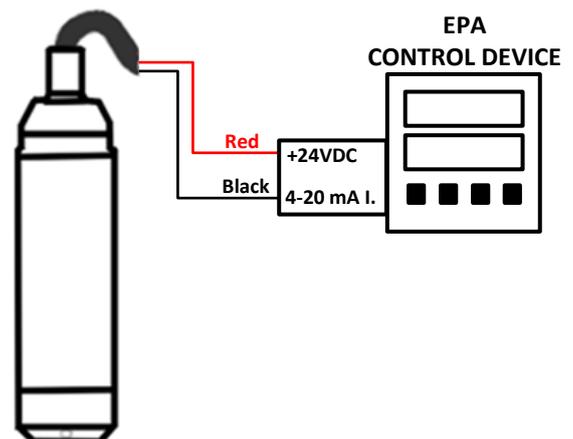
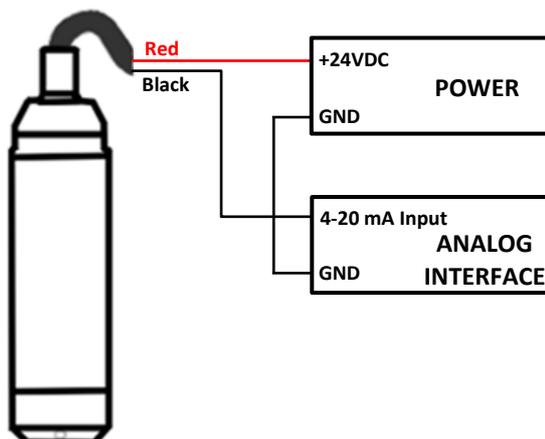
TECHNICAL SPECIFICATIONS

Supply Voltage	12 ... 30 VDC	Output Signal	4...20 mA (2 wire) 0...10 VDC (3 wire)
Measuring Principle	Piezoresistive	Operating Temperature	-20°C ... +70°C
Membrane	1.4404 (AISI 316L)	Storage Temperature	-20°C ... +70°C
O-Ring	NBR	Protection Class	IP68
Measuring Range	Different models between 100 mbar and 25 bar can be selected	Material	Body: 1.4404 (AISI 316L stainless steel) Cable: PE (polythene)
Maximum Pressure	%200 FS	Weight	~350 gr
Precision	%0,3	EMC Protection	Emission: EN/IEC 61000-6-3 Immunity: EN/IEC 61000-6-2
Electrical Connection	3 x 0,22 mm ² cable Cable outer diameter: 7,5 ±0,2 mm Drain pipe diameter: 2 mm (Cable length according to level value)		

ELECTRICAL CONNECTION

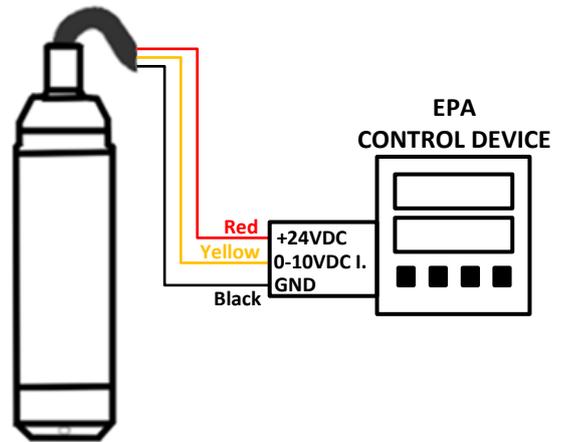
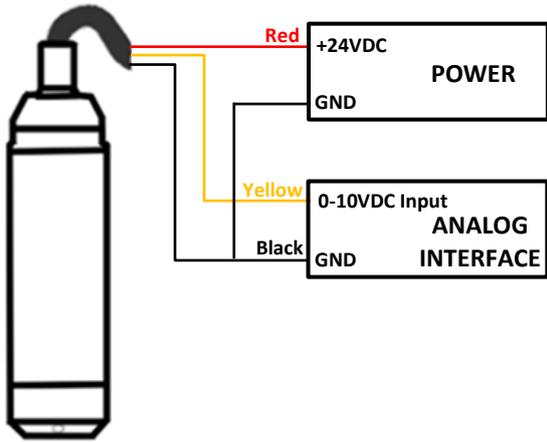
4-20 mA Connection

Signal	Cable
+12...30 VDC (+ supply)	Red
4-20 mA	Black



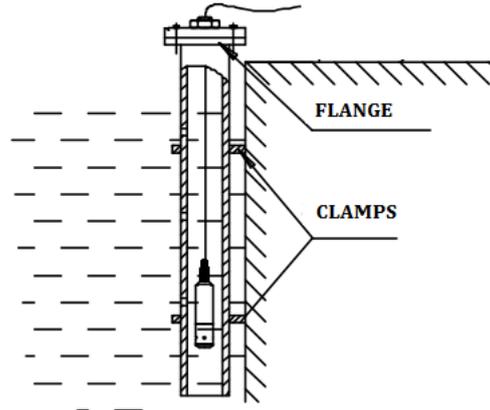
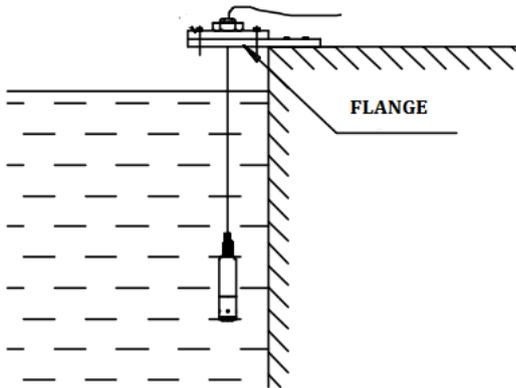
0-10 VDC Connection

Signal	Cable
+12...30 VDC (+ supply)	Red
GND	Black
0-10 VDC	Yellow



SAMPLE APPLICATION

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.

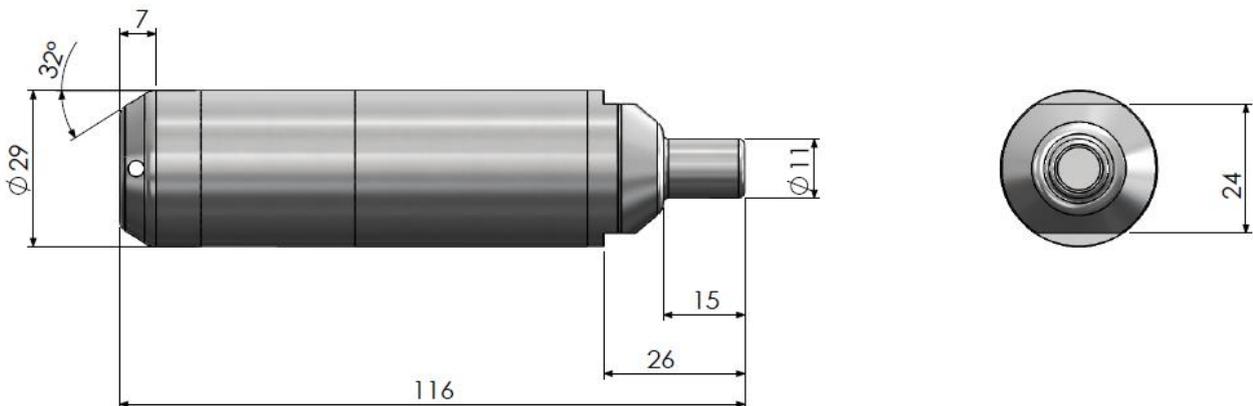


WARNING!!!

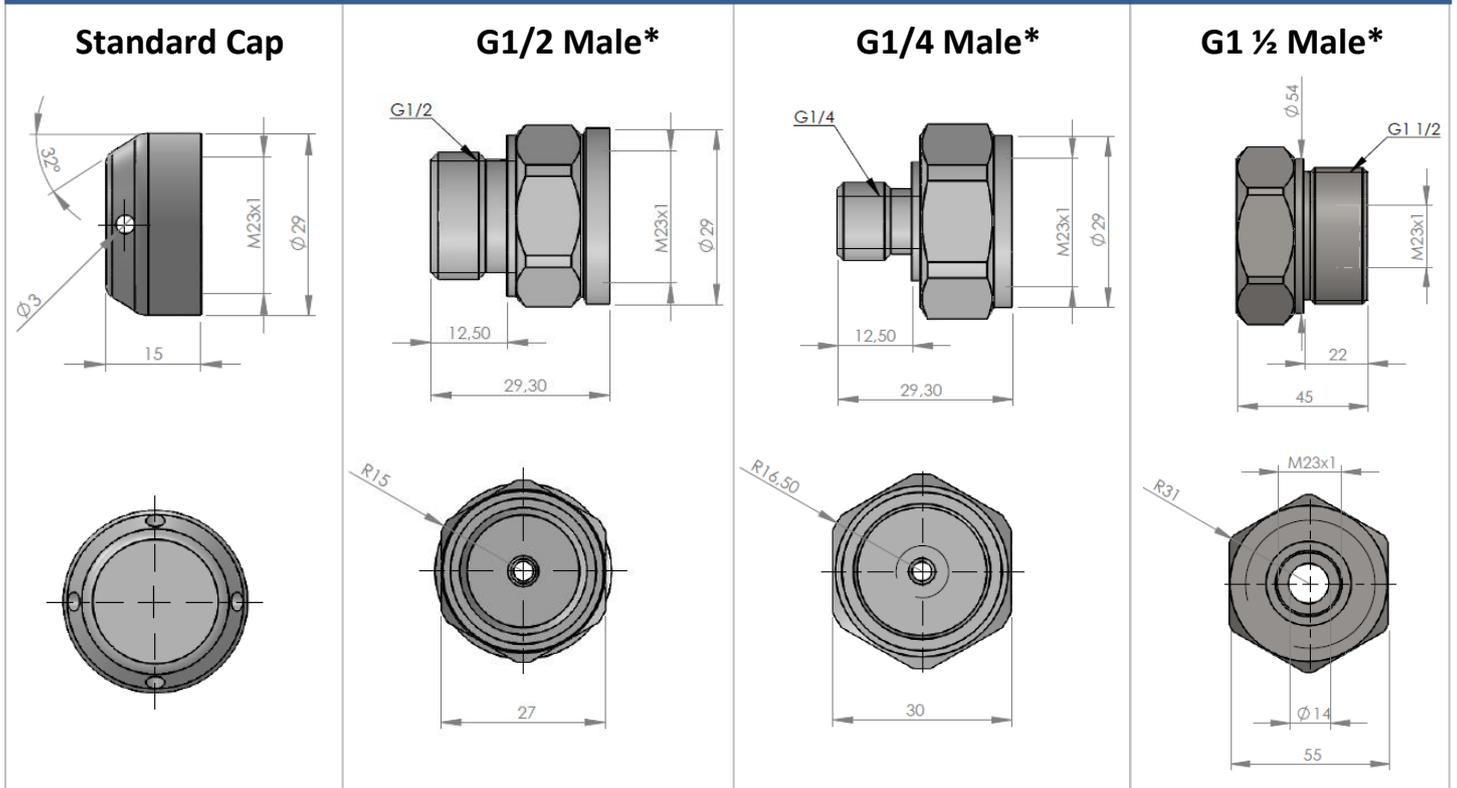
If the wick in the drain pipe is removed, the product will be out of warranty.



MECHANICAL DIMENSIONS (with standard cap) (in mm)



MECHANICAL CONNECTION OPTIONS



Fittings marked with (*) are optional.

SAMPLE APPLICATION FIELDS

- Wells
- Water Tanks
- Lake Level
- River Level
- Reservoirs



ORDER CODE

Model	Pressure	Output Signal	Mechanical Connection	Cable Length	Cable Type
PTL 110	Different models between 100 mbar and 25 bar can be selected *(For water, 1 meter level = 100 milibar)	V : 0-10 VDC A : 4-20 mA	No Code : Standard Cap G1/4 : G1/4 Connection G1/2 : G1/2 Connection G1.1/2 : G1 1/2 Connection	5M : 5 meters 8M : 8 meters 10M: 10 meters Must be selected 1 meter above the value to be measured in liquid level measurement	No code : PE (polythene)
X		XX	XX	XX	XXX

Product	Housing	Cable Material	O-Ring	Applications
PTL 110	1.4404 (AISI 316L)	PE (polythene)	NBR	Wells, water tanks, lake level, river level, reservoirs
PTL 120	1.4462 (duplex)	PE (polythene)	NBR	Sea water, saline water, waste water gray water
	1.4404 (AISI 316L)			
	Titanium			
PTL 130	1.4404 (AISI 316L)	PTFE (polytetrafluorethylene)	Viton (FKM)	Oils and fuels

Atek Elektronik Sensör Teknolojileri Sanayi ve Ticaret A.Ş.