

IoT Pressure Sensor

Applications

Utility water supply
Water treatment
Irrigation
Machine health
Hydraulics
Pumping
Building automation
Gas and oil production
Process control
HVAC

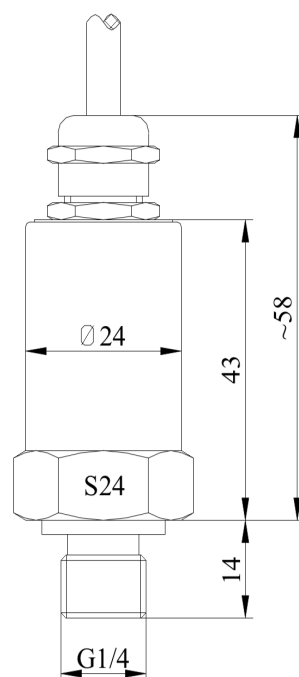
Options

Connection port
Cable length
Supply voltage
Signal output type
Pressure range
Accuracy

Specifically designed to interface to battery powered IoT sensor modules, the TIC TOC™ pressure sensor is the ideal solution for remote pressure monitoring applications that require low power consumption, fast response time and reliable long term performance in harsh environments.

Features

Low cost
High stability, accuracy - temperature compensated
Ultra-low power consumption
3v DC supply ideal for battery powered IoT modules
Precision German ceramic sensor element
Compact size, easy installation
Rugged, corrosion resistant construction – IP68
CE, intrinsically safe, explosion-proof approved





Item	Specifications	Comments	Notes
Pressure Range	0 - 600 Bar Gauge or Absolute 10 Bar Gauge - Stocked Item		Pressure Units 1MPa=145PSI 1MPa=10Bar 1Bar=100kPa 1PSI=6.8965kPa 1Bar=98kPa
Overload Pressure	1.5 x rated pressure		
Burst Pressure	3 x rated pressure		
Accuracy at 25°C	± 0.5% FS Digitally calibrated	± 0.25% FS optional	
Stability	Typically 0.5% FS	Max 1.0% FS	
Working Temperature	-40 - 100°C		
Compensated Temp	-10 - 80°C		
Output Signal	20mV/V – Bridge output type Stocked Item	Options available	2 x wire 4-20mA 3 x wire 0-5v 0-10v
Power Supply	3v DC	Options available	10-30v DC
Load Resistance	(U-10)/0.02 Ω >100k Ω		
Insulation	>100M Ω @ 50V		
Electrical Withstand	500v for 60 seconds		
Vibration	10g/5-2000Hz, axes X,Y,Z 20g Sine 11ms		
Cable – PTFE Sheathed IP68 termination	Chemical resistant 3 meter length - stocked item	Options available	DIN 43650C,DIN72585, M12 Seal, Packard Plug
Pressure Port	NPT1/4 Stocked item	Options available	G 1/4 , 7/17-20 UNF
Response Time	10ms		
Certification	CE Stocked Item	Options available	Intrinsically Safe E Explosion Proof D
EMC	EMI: EN50081-1/-2	EMS: EN50082-2	

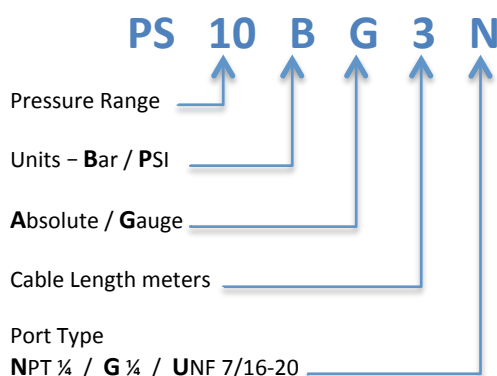
Ordering Information

Minimum quantities apply for special orders.

Cable terminated with crimp pins – standard

Cable connector fitting service available.

OEM white labeling available for volume orders



In the interest of product improvement , specifications may change without notice.

August 2018 Rev 1.0

IoT Liquid Level Sensor

Applications

Utility water supply

Water treatment

Environmental monitoring

Irrigation

Flood Alert

Pumping

Oil production

Process control

Marine tide monitoring

River gauging

Tanker load validation

Borehole monitoring

Options

Connection port

Cable length

Supply voltage

Signal output type

Pressure range

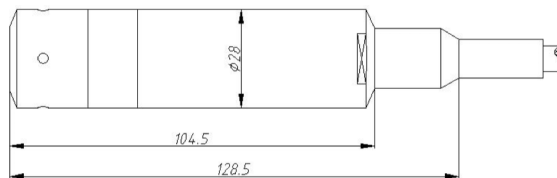
Accuracy

Specifically designed to interface to battery powered IoT sensor modules, the TIC TOC™ liquid level sensor is the ideal solution for remote level monitoring applications that require low power consumption, fast response time and reliable long term performance in harsh environments.

Measuring hydrostatic pressure, the level sensor is pre-calibrated and can be easily installed by submerging the sensor at the base of the liquid to be measured, such as at the bottom of a water tank, reservoir or river.

Features

- Low cost
- High stability, accuracy and reliable long term performance
- Ultra-low power consumption
- 3v DC supply ideal for battery powered IoT modules
- Precision silicon oil sensor element - temperature compensated
- Easy “drop in” installation – no liquid level calibration required
- Rugged, corrosion and abrasion resistant construction – IP68





Item	Specifications	Comments	Notes
Pressure Range	0 - 1 Bar Gauge or Absolute 0.3 or 1 Bar Gauge - Stocked Item		Pressure Units 1MPa=145PSI 1MPa=10Bar 1Bar=100kPa 1PSI=6.8965kPa 1Bar=98kPa 1Bar= 10.2 m H₂O
Overload Pressure	1.5 x rated pressure		
Burst Pressure	3 x rated pressure		
Accuracy at 25°C	± 0.5% FS Digitally calibrated	± 0.25% FS optional	
Stability	Typically 0.5% FS	Max 1.0% FS	
Working Temperature	-40 - 100°C		
Compensated Temp	-10 - 80°C		
Output Signal	20mV/V – Bridge output type Stocked Item	Options available	2 x wire 4-20mA 3 x wire 0-5 v 0-10v
Power Supply	3v DC	Options available	10-30v DC
Load Resistance	(U-10)/0.02 Ω >100k Ω		
Insulation	>100M Ω @ 50V		
Electrical Withstand	500v for 60 seconds		
Vibration	10g/5-2000Hz, axes X,Y,Z 20g Sine 11ms		
Cable – PTFE Sheathed IP68 termination	Chemical resistant with Atmospheric breather tube 15 meter length - stocked item	Options available	DIN 43650C,DIN72585, M12 Seal, Packard Plug
Pressure Port	“Sinker” blind end - Stocked item	Options available	G 1/4 , 7/17-20 UNF
Response Time	10ms		
Certification	CE, CMC Stocked Item	Options available	
EMC	EMI: EN50081-1/-2	EMS: EN50082-2	

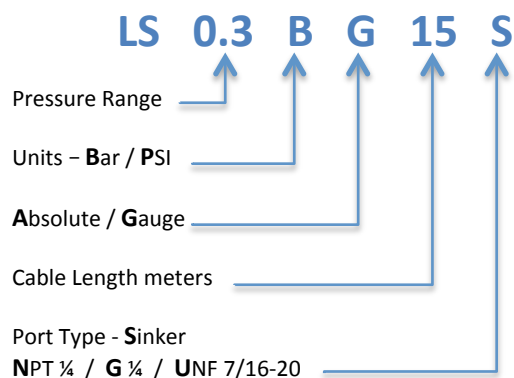
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