



PROTRAN[®] PR3900

Hazardous Area Pressure Transducer

- ATEX and IECEx certified
- Designed for operating in zone 0, zone 20 and M1 mining
- NACE corrosion resistant materials
- Rugged, weatherproof design
- DNV GL certification available



The advanced sensor design consists of a piezoresistive silicon strain gauge circuit, which is epitaxially grown onto the surface of a sapphire diaphragm to form a single crystalline structure. The sapphire sensor element is then molecularly bonded to a titanium alloy sub-diaphragm.

This enables the sensor to endure higher over-pressures and provides superb corrosion resistance. The sensor exhibits virtually no hysteresis and excellent long-term stability over wide temperature ranges.

Order Matrix

Output	Wires	Type	Electrical Connector/Options	Pressure Range	Process Connection
4-20 mA	2	PR3900			
Electrical Connections/Options					
1/2" NPT M conduit fitting with 1m submersible polyurethane cable with inequal screen			EX		
DNV GL Approved plus ATEX/IECEX certified			MEX		
Pressure Range in bar					
0-10 bar	(0-150 psi)				
0-25 bar	(0-300 psi)				
0-60 bar	(0-1,000 psi)				
0-100 bar	(0-1,500 psi)				
0-250 bar	(0-3,000 psi)				
0-600 bar	(0-8,700 psi)				
0-1,000 bar	(0-15,000 psi)				
0-1,500 bar	(0-20,000 psi)				
Process Connection					
1/2" NPT male					AS
1/4" NPT female					AB
1/4" BSP male (G1/4)					AM
1/4" NPT male					AC
1/2" BSP male (G1/2)					AN

Order Number Example

PR3900EXM1000AS

For options not listed please contact the sales team

DISCLAIMER: ESI Technology Ltd operates a policy of continuous product development. We reserve the right to change specification without prior notice. All products manufactured by ESI Technology Ltd are calibrated using precision calibration equipment, traceable to national measurement standards.