

Elite 570 Series



2 wire gauge pressure transmitter

The Elite Series 570 is a cost effective two wire, 4 to 20mA gauge pressure transmitter and is available in standard ranges from 0.5 bar to 600 bar. Optionally the unit can be factory scaled to customer requirements including compound ranges.

The Elite Series 570 Pressure transmitter employs a four active arm strain gauge bridge fused to a high purity alumina ceramic diaphragm, offering high natural output coupled with superb chemical and corrosion resistance. The sensor is housed within a stainless steel case with integral electronics and supplied with a plug and socket electrical connection. The process connection is a 1/4" BSP male thread as standard, 1/4" NPT is available on special request.

Specifications

Body:	303 stainless steel
Diaphragm:	96% pure alumina Ceramic
Diaphragm Seal:	Viton
Standard ranges:	1, 2, 3, 5, 10, 20, 50, 100, 200, 500 & 600bar
Specific calibration:	Available please refer to PSM
Supply:	10 to 32V DC
Signal Output:	4 - 20 mA DC
Load:	1k Ω at 30V dc supply
Connection:	Standard mini DIN plug to DIN 40050
Output—span:	16mA +/- 1% of span at zero pressure
Output—zero:	4mA +/- 1% span
Environmental Protection:	IP65
Process temp:	-25 to +80 deg C
Maximum error:	0.25% of span (best fit straight line)
Thermal zero shift:	<+/- 0.08% span per deg C
Thermal Span shift:	<+/- 0.04% reading/deg C typical
Safe over-range pressure:	1.5 x rated range minimum
Burst Pressure:	3 x rated range minimum
Output resistance:	> 10M Ω
Insulation / Isolation Resistance:	> 500M Ω @ 50V dc

Key features

Compact yet rugged

4 to 20 mA Output

Cost effective

High Electrical Isolation

Excellent linearity



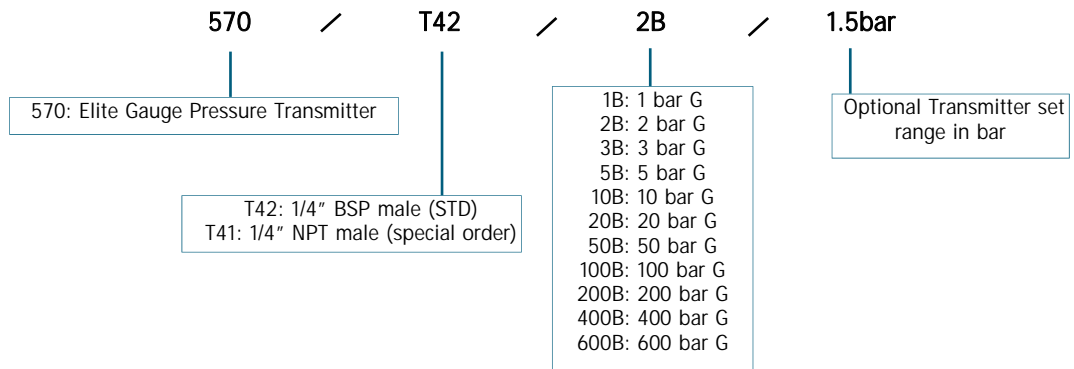
Typical Applications

- * Water level / pressure
- * Data Logging
- * Chemical Processing
- * Soil Mechanics
- * Load measurement automotive
- * Hydraulic Machinery
- * Air conditioning
- * Crop spraying
- * Paper processing
- * Printing
- * Medical Engineering
- * Air Compressors
- * Gas flow
- * Pneumatic controls
- * Central Heating

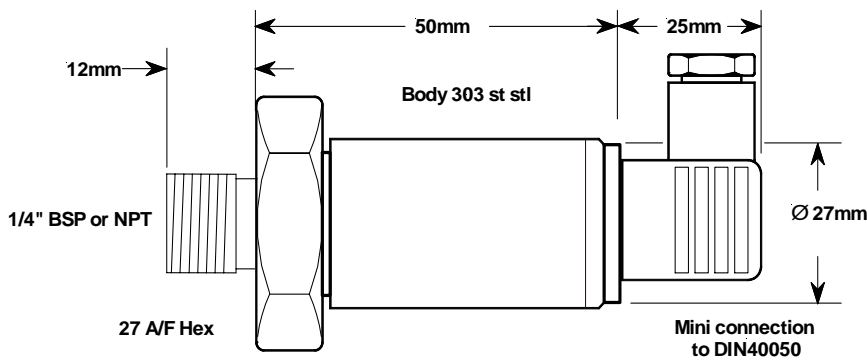




Model coding



Outline drawing



Electrical Connections: Pin 1 Positive, Pin 2 Negative

PSM

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