

# 1100 Series Economical OEM Pressure Transmitters

- ▶ Stainless Shell and Wetted Parts
- ▶ Compact Design
- ▶ Cost Effective
- ▶ RoHS Compliant

Gems 1100 series economical transmitters are based on sputtered thin film technology, providing high reliability, long-term stability and low cost.

Design provides a rugged sensor, suitable for many general purpose pressure measurement applications, compressor control, pump protection and many other monitoring and control operations.



## Technical Specifications

### Performance

Long Term Drift	0.2% FS/Year.
Accuracy	0.5% FS.
Thermal Error	1.5% FS/100°C.
Compensated temperatures	-25°C to +120°C.
Operating Temperatures	-25°C to +120°C.
Zero/Span Tolerance	1.0% FS.
Response Time	1ms.
Proof Pressure	> 25 bar · 2 x FS. ≤ 25 bar · 3 x FS.
Burst Pressure	20×FS.
Approvals	CE,UL,RoHS.

### Mechanical Configuration

Pressure Port	See Pressure Ports
Wetted Part	17-4 PH Stainless Steel
Electrical Connection	See Electrical Connectors
Enclosure	IP 67 / IP65 for DIN only

### EMC Specifications

Emissions Tests	EN61326-1:2006 and En61326 -2-3:2006
Immunity Tests	EN61326-1:2006 and En61326 -2-3:2006

### Vibration

Shock	40G peak to peak sinusoidal IEC 68-2-32 Procedure 1
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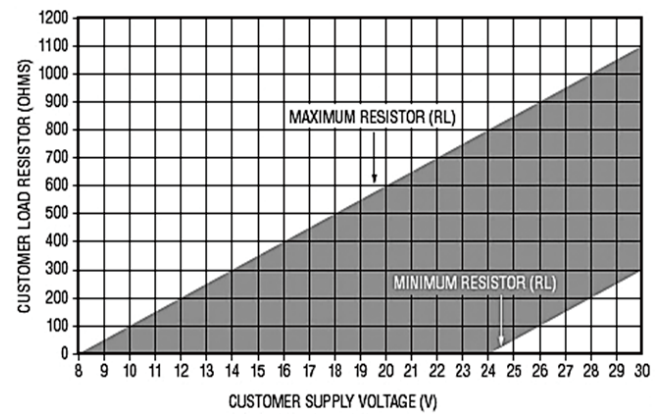
### Individual Specifications

#### Voltage Output

Supply Voltage	2 Vdc above FS to 30 Vdc
Output (3-Wire)	0 Vdc min. to 10V max
Supply Voltage	5.0 Vdc ±10%
Output (3-Wire)	0.5 to 4.5 Vdc Ratimetric

#### Current Output

Supply Voltage	8 to 30 Vdc
Output (2-Wire)	4-20mA.

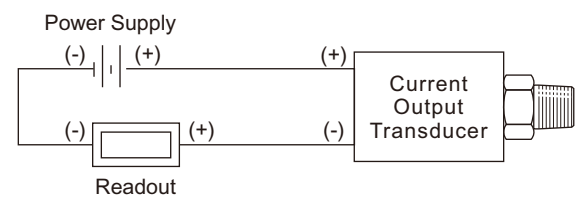
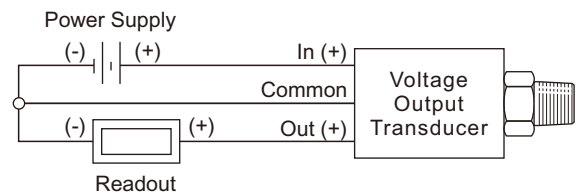


Current Output Mode (Load Resistor Range)

Minimum Resistor Value =  $50 * (+V - 24)$  for  $+V > 24V$

Maximum Resistor Value =  $50 * (+V - 8)$  for  $+V > 8V$

## Wiring Diagram



## Electrical Connectors

	DIN 9.4 mm		M12 x 1P		Amp Superseal 1.5		Deutsch DT04-4P		Packard MetriPack	
	Code B		Code E		Code 6		Code 8		Code 9	
Pin ID	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	Current Mode	Voltage Mode	Current Mode
1	Vout	No Connect	Vsupply	Supply	Vout	No Connect	Ground	Return	Vout	No Connect
2	Vsupply	Supply	Vout	No Connect	Ground	Return	Vsupply	Supply	Ground	Return
3	No Connect	No Connect	Ground	Return	Vsupply	Supply	No Function	No Connect	Vsupply	Supply
4	Ground	Return	No Connect	No Connect	----	----	Vout	No Connect	----	----

## Pressure Ports

Dimensions					
Fitting	G1/4 External	G1/4" External Face Seal	1/4"-18 NPT	1/4"-19 PT/BSPT External (R1/4)	7/16"-20 UNF-2B with schraeder
Torque	30-35 NM	30-35 NM	2-3 TFFT*	2-3 TFFT*	18-20 NM

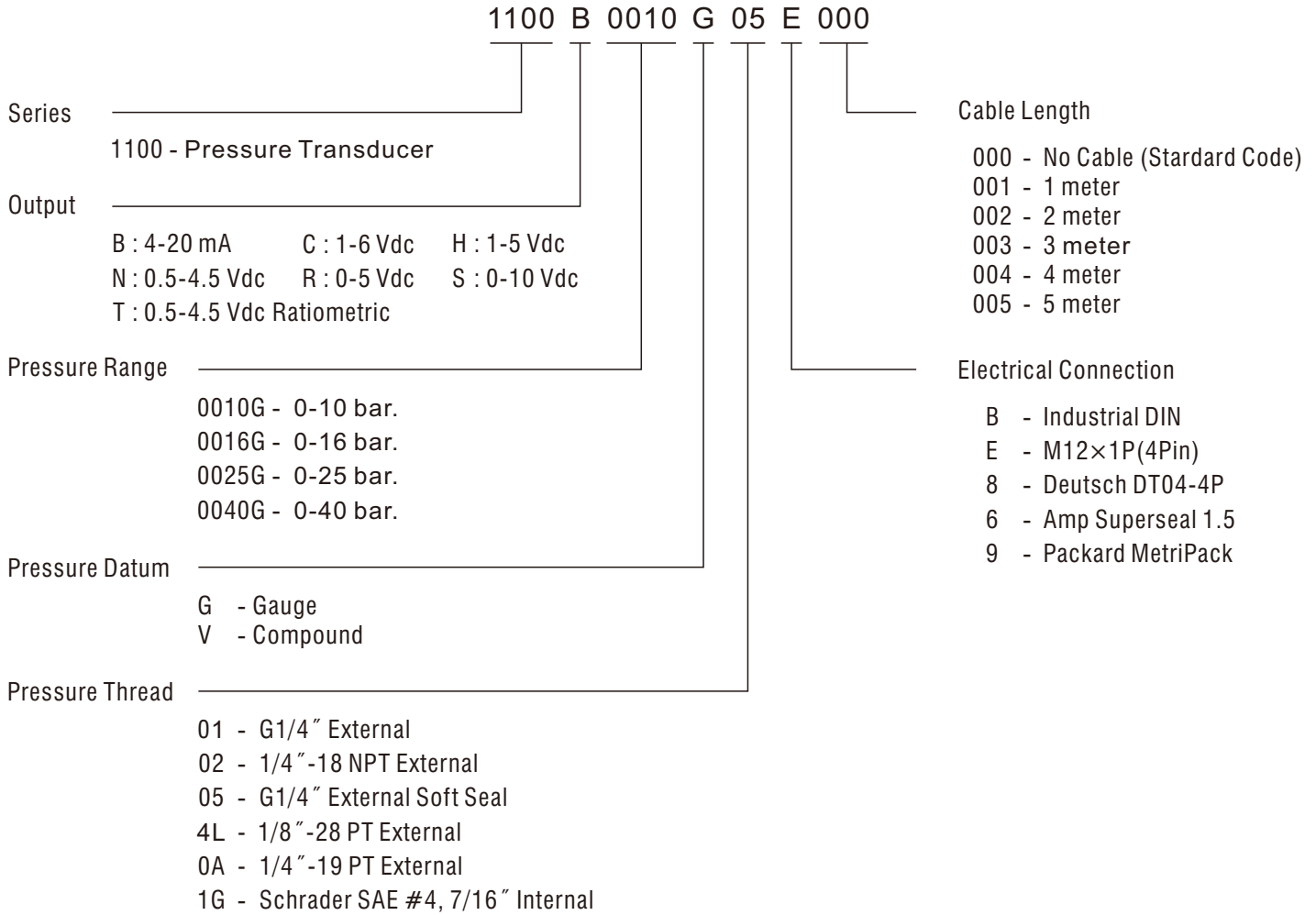
\* NPT Threads 2-3 turns from finger tight. Wrench tighten 2-3 turns.

### Notes

1. The diameter of all cans is 19mm.
2. O-Ring material, where applicable, is Nitrile unless otherwise specified.
3. Please consult Gems China for other pressure ports.

## How to Order

Use the bold characters from the chart below to construct a product code.



### Notes

\* Please consult Gems sensors for other pressure ranges.