

EL2600 Pressure Transmitter and 'U' Syphons

Safety

Your attention is drawn to Safety Information Leaflet IM-GCM-10.

Description

The EL2600 is a combined pressure sensor and transmitter which is designed for general industrial use. It has a 2 wire 4-20 mA current loop, and a 1/4" NPT process connection. Two syphon tube and valve assemblies are available, one with a maximum design pressure of 362.5 psig and one with a maximum design pressure of 1160 psig.

Available Ranges psig

0-14.5	0-145	0-1450 *
0-23.2	0-232	0-2320 *
0-36.25	0-362.5	0-3625 *
0-58	0-870	
0-87	0-580	

*No 'U' syphon available for these ranges, therefore maximum operating temperature is limited to 158°F.

Note: High pressure 'spikes' above maximum overpressure, even of very short (milli-seconds) duration, could damage sensors. If pressure peaks are likely to occur in your application, we recommend the use of a pressure snubber. Alternatively, a higher range pressure transmitter could be used, though this would mean some loss of signal resolution.

Limiting conditions

Pressure/ temperature limits EL2600

Minimum operating temperature	32°F
Maximum operating temperature (without syphon tube)	158°F

Low pressure syphon tube/ valve

Maximum design pressure	362.5 psig
Maximum design temperature	500°F
Maximum working conditions	304.5 psig and 422.6°F

High pressure syphon tube

Maximum design pressure	1160 psig
Maximum design temperature	842°F
Maximum working conditions	870 psig and 842°F

Process connection

For fluids below 158°F the EL2600 may be mounted directly via its 1/4" NPT connection.

Above 158°F, a 'U' syphon and isolating valve must be fitted between the EL2600 and the vessel or pipeline.

Technical data

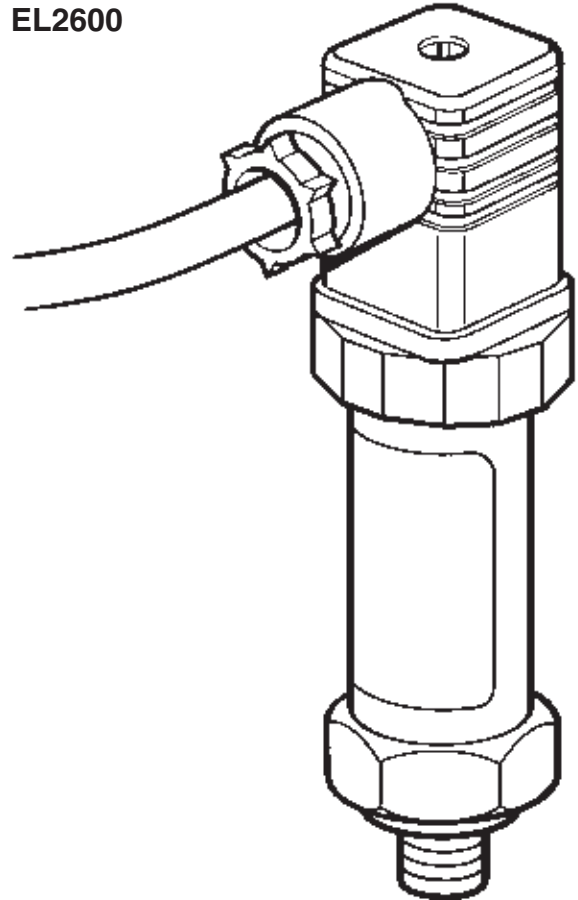
Pressure range (psig)	Overpressure	Burst pressure (psig)	Accuracy (+/-%FSD at 68°F)
up to 29	3 x full scale	2900	≥ 0.5
29 - 362.5	3 x full scale	2900	≥ 0.5
362.5 - 362.5	3 x full scale	12.325	≥ 0.5

Supply voltage	9 to 33 V dc
Supply voltage influence	< 0.1% full scale
Enclosure rating	NEMA4

Approvals

EMC emissions	BS EN 50081 - 1
EMC susceptibility	BS EN 50082 - 2
Maximum loop resistance (ohms)	Supply voltage - 9 Volts 0.02 Amps

EL2600



Materials

EL2600

Part	Material	
Body	Stainless steel	316L WS 1.4435
Connector	Moulded plastic	Polyamide PA 66

*Low pressure syphon tube assembly

Part	Material	
Tube	Carbon steel	ASTM A106 Gr. B. Phosphated
Valve Body	Brass	
Valve Handle	Phenolic	

High pressure syphon tube assembly

Part	Material	
Tube	Carbon steel	BS 3602: Part.1 1987 CFS 360 (zinc plated/ passivated)
Valve Body	Carbon steel	
Valve Seat	PEEK/ Polymain	

* Valve ordered separately

Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interests of development and improvement of the product, we reserve the right to change the specification.

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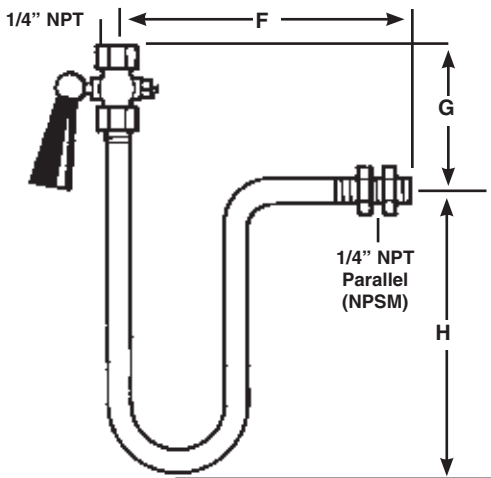
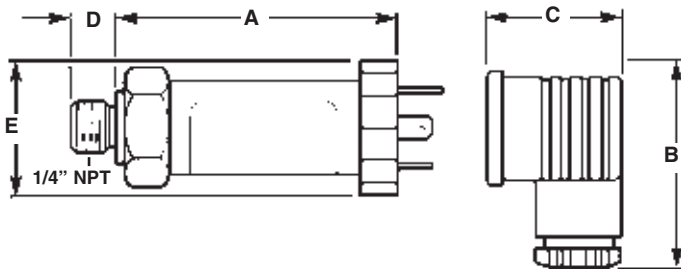
Dimensions/ weights (approximate) in inches and lbs.

EL2600

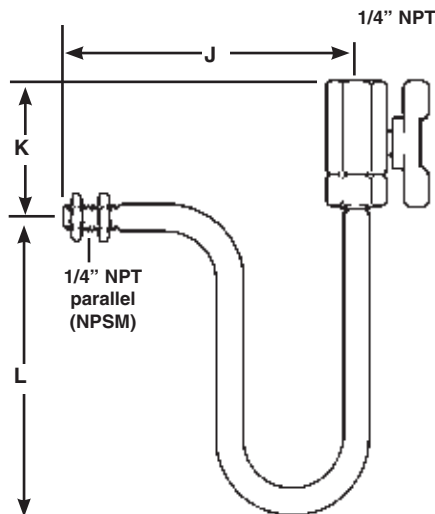
A	B	C	D	E	Weight
2.6"	1.9"	1.1"	0.5"	1.4"	0.2

'U' Syphon and isolating valve

F	G	H	J	K	L	Weight
6.3"	2"	5.9"	6.3"	2.3"	5.9"	1.1



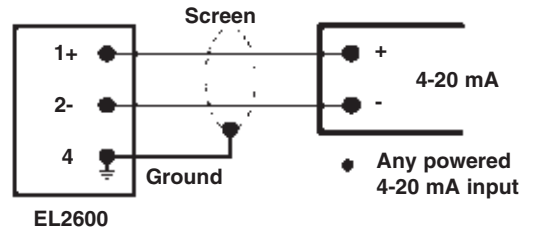
Low Pressure



High Pressure

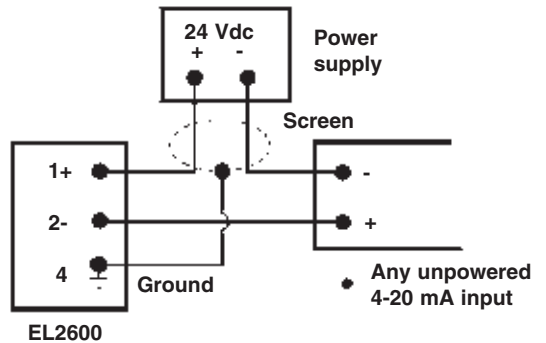
Wiring details

Powered current loop input:-



EL2600

Unpowered current loop input:-



EL2600

Installation

The EL2600 pressure sensor must be installed as described in the Installation and Maintenance Instructions supplied with each unit. It is essential to use a 'U' syphon and valve for temperatures above 158°F to avoid damage to the unit. **The syphon tube must be filled with water before fitting the EL2600.**

Maintenance

No specific maintenance is required, but we recommend inspection of the transmitter and its connector at least once a year. The EL2600 can be re-calibrated - see Installation and Maintenance Instructions.

Cable requirements

- 2 core cable with screen if noise expected.
- Maximum cable length is dependent upon the driving voltage and cable resistance.

How to order

1 - EL2600 pressure transmitter, range 0-232 psig with 'U' syphon and valve.

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