EL2600 Pressure Transmitter and 'U' Syphons

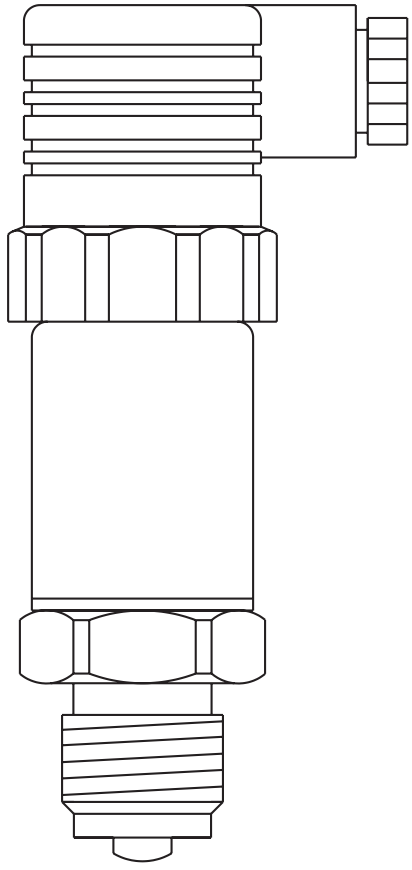
Description

The EL2600 is a combined pressure sensor and transmitter which is designed for general and industrial use.
It has a 2-wire 4-20 mA current loop, and a ¼" NPT process connection. Two syphon tube and valve assemblies are available, one with a maximum design pressure of 362 psi g, and one with a maximum design pressure of 1160 psi g.

Available ranges

Calibrated pressure range	Overpressure P max (psi g)
0-23.2 psi a 0-36.25 psi a	145
0-1.45 psi g	14.5
0-3.6 psi g	29
0-8.7 psi g	87
0-14.5 psi g	72
0-23.2 psi g	145
0-36 psi g	145
0-58 psi g	246
0-87 psi g	507
0-145 psi g	507
0-232 psi g	1160
0-362 psi g	1160
0-580 psi g	1740
0-870 psi g	2900
0-1450 psi g*	4640
0-2320 psi g*	7250
0-3626 psi g*	11600

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.



Process connection

For fluids below 212 °F the EL2600 may be mounted directly via its ¼" NPT connection.

Above 212 °F, a 'U' syphon and isolating valve must be fitted between the EL2600 and the vessel or pipeline.

*No 'U' syphon is available for these ranges, therefore maximum operating temperature is limited to 212 °F

Limiting conditions

Pressure/temperature limits EL2600

Minimum operating temperature	-22 °F (medium)
	-4 °F / -20 °C (ambient)
Maximum operating temperature (without syphon tube)	212 °F (medium)
	176 °F / 80 °C (ambient)

Low pressure syphon tube/valve

Maximum design pressure	362 psi g
Maximum design temperature	500 °F
Maximum working conditions	304 psi g @ 422 °F

High pressure syphon tube

Maximum design pressure	1160 psi g
Maximum design temperature	842 °F
Maximum working conditions	870 psi g @ 842 °F

Technical data

Sensor type	0-23 psi g to 0-230 psi g	Piezorresistive
	0-580 psi g to 0-5800 psi g	Thin film
Supply voltage		10 Vdc to 30 Vdc
Accuracy		≤ 0.5%
Repeatability		≤ 0.05 of span
Hysteresis		≤ 0.1% of span
Protection rating		IP65

Approvals

EMC emissions	BS EN 61326: 1997 A1 and A2 Table 4
EMC susceptibility	BS EN 61326: 1997 A1 and A2 Table 4 ANNEX A

Materials

EL2600

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

Low pressure syphon tube assembly (Valve ordered separately)

Part		Material	
Tube		Carbon steel	ASTM A 106 Gr. B. Phosphated
Valve	Body	Brass	
	Handle	Phenolic	

High pressure syphon tube assembly

Part		Material	
Tube		Carbon steel (zinc plated/ passivated).	BS3602: Part.1 1987 CFS 360
Valve	Body	Carbon steel	
	Seat	PEEK/Polymain	

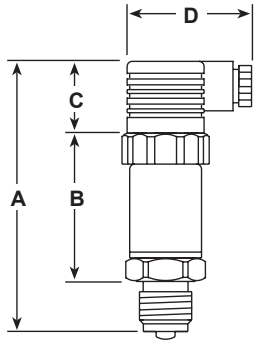
Dimensions/weights (approximate) inches and pounds

EL2600

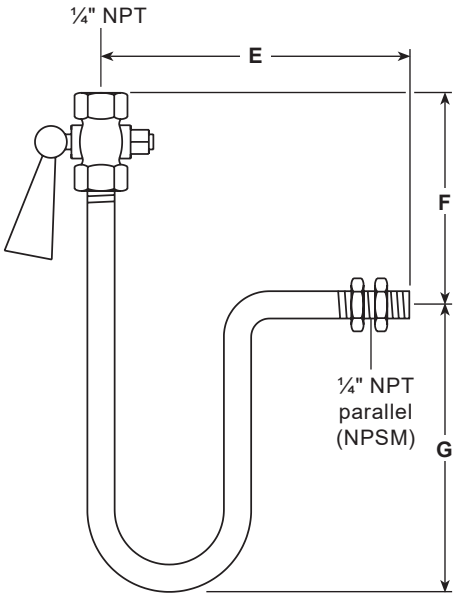
A	B	C	D	Weight
4.1	2.25	1.1	1.9	0.44

'U' Syphon and isolating valve

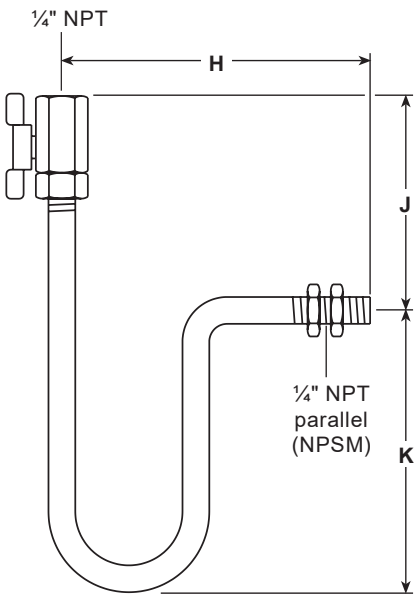
E	F	G	H	J	K	Weight
6.3	2	6	6.3	2.4	6	1.1



Low pressure 'U' syphon



High pressure 'U' syphon



Safety information, installation and maintenance

This document does not contain sufficient information to install the product safely. See the Installation and Maintenance Instructions supplied with the product.

Safety note:

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

Installation note:

It is essential to use a 'U' syphon and valve for temperatures above 212 °F to avoid damage to the unit.

Maintenance note:

No specific maintenance is required, but we recommend inspection and re-calibration of the transmitter once a year.

How to order

Example: 1 - Spirax Sarco EL2600 pressure transmitter, range 0 - 232 psi g, with low pressure 'U' syphon and isolating valve.