

# spirax sarco

## EL2600

TI-P322-02  
MI Issue 7

## 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 1/4" NPT process connection. Two syphon tube and valve assemblies are available, one with a maximum design pressure of 25 bar g, and one with a maximum design pressure of 80 bar g.

### Available ranges

m bar g	0-100	0-250	0-600					
bar g	0-0.1	0-0.25	0-0.6	0-1	0-1.6	0-2.5	0-4	0-6
bar a	0-10	0-16	0-25	0-40	0-60	0-100*	0-160*	0-250*
bar a	0-1.6	0-2.5						

\*No 'U' syphon is available for these ranges, therefore maximum operating temperature is limited to 100°C

### Limiting conditions

#### Pressure/temperature limits EL2600

Minimum operating temperature	-30°C (medium) -20°C (ambient)
Maximum operating temperature (without syphon tube)	100°C (medium) 80°C (ambient)

#### Low pressure syphon tube/valve

Maximum design pressure	25 bar g
Maximum design temperature	260°C
Maximum working conditions	21 bar g @ 217°C

#### High pressure syphon tube

Maximum design pressure	80 bar g
Maximum design temperature	450°C
Maximum working conditions	60 bar g @ 450°C

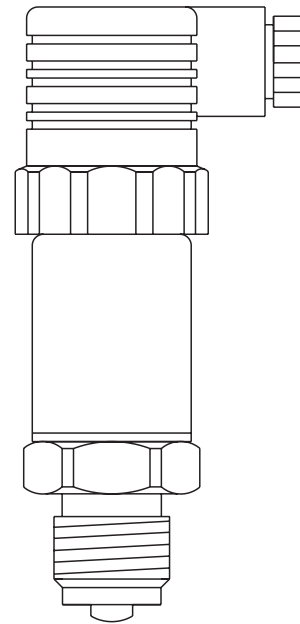
#### Overpressure limit table

Calibrated pressure range	Overpressure P max (bar)
0-1.6 bar a, 0-2.5 bar a	10
0-0.1 bar g	1
0-0.25 bar g	2
0-0.6 bar g	4
0-1 bar g	5
0-1.6 bar g, 0-2.5 bar g	10
0-4 bar g	17
0-6 bar g, 0-10 bar g	35
0-16 bar g, 0-25 bar g	80
0-40 bar g	120
0-60 bar g	200
0-100 bar g	320
0-160 bar g	500
0-250 bar g	800

**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 100°C the EL2600 may be mounted directly via its 1/4" NPT connection. Above 100°C, a 'U' syphon and isolating valve must be fitted between the EL2600 and the vessel or pipeline.



### Technical data

Sensor type	0-1.6 bar a to 0-16 bar g	Piezoresistive
	0-40 bar g to 0-400 bar 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	2004/108/EC, EN 61 326 Emission (Group 1, Class B)	
EMC susceptibility	2004/108/EC, EN 61 326 Emission (Group 1, Class B) and Immunity (industrial locations)	

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

**Dimensions/weights (approximate) in mm and kg**

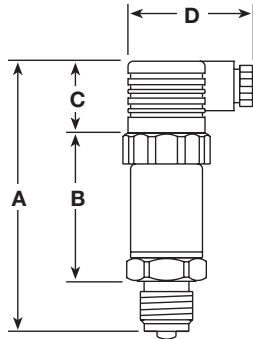
**EL2600**

A	B	C	D	Weight
104	57	28	48	0.2

**'U' Syphon and isolating valve**

E	F	G	H	J	K	Weight
160	50	150	160	60	150	0.5

**EL2600**



**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 100°C to avoid damage to the unit.

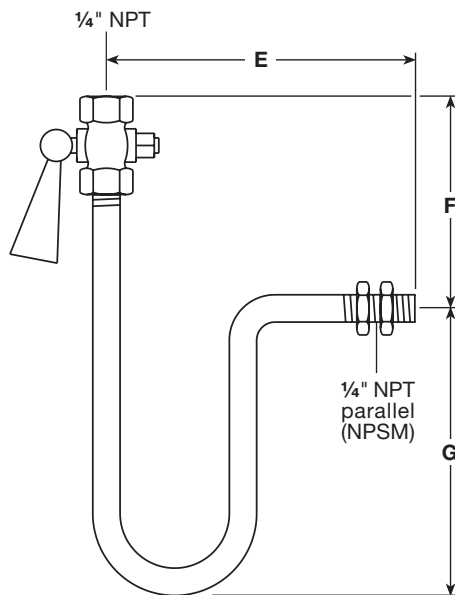
**Maintenance note:**

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 - 16 bar g, with low pressure 'U' syphon and isolating valve.

**Low pressure 'U' syphon**



**High pressure 'U' syphon**

