

# Transducer

## OEM Transducer

Series 623, 625, 626, 627

### Features

- ▶ cULus approved
- ▶ Compact size
- ▶ Stainless steel construction
- ▶ Ceramic sensor technology
- ▶ Current and voltage outputs
- ▶ 0.5% accuracy

### Applications

- ▶ Water irrigation systems
- ▶ Medical gas systems
- ▶ HVAC systems
- ▶ Pumps and compressors
- ▶ Machine tools
- ▶ Hydraulic and pneumatic applications
- ▶ Mobile hydraulics
- ▶ General industrial applications



### General Specifications\*

<b>Accuracy (LH &amp; R):</b>	±0.5% FSO Typical
<b>Typical Life Cycle:</b>	100 million cycles
<b>Proof Pressure:</b>	2 times rated pressure, or 9000 psi max, whichever is less.
<b>Input/Excitation Voltage:</b>	
625 (2-wire):	9 to 28 VDC
623 (3-wire):	9 to 30 VDC
626 (3-wire):	14 to 30 VDC
627 (3-wire):	14 to 30 VDC
<b>Output:</b>	
625 (2-wire):	4-20 mA
623 (3-wire):	0.5-5.5 VDC
626 (3-wire):	1-11 VDC
627 (3-wire):	0-10 VDC
<b>Supply Current:</b>	15 mA maximum (no load)
<b>Wetted Parts:</b>	316 Stainless steel, ceramic and Viton® O-ring (standard)
<b>Enclosure**:</b>	NEMA 4X (IP 65)
<b>Pressure Connection:</b>	1/4" NPT standard. Other options available.
<b>Electrical Connection:</b>	PVC jacketed cable standard. Other options available.

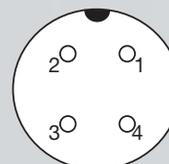
<b>Temperature Ranges:</b>	
Operating:	-40°F to +185°F (-40°C to +85°C)
Compensated:	30°F to +130°F (-1°C to +54°C)
Storage:	-40°F to +185°F (-40°C to +85°C)
<b>Temperature Shift:</b>	
Zero and Span:	±0.06% FS/K over operating temperature range
<b>Vibration:</b>	15 g's, 10-2000 Hz, MIL-STD 202
<b>Approval<sup>1</sup>:</b>	 UL File E302981, to UL 508, as Industrial Control Equipment (NMTR, NMTR7), and to UL 61010-1, as Process Control Equipment (QUYX, QUYX7).
<b>Shock:</b>	50 g's, 11 ms, MIL-STD 202 Method 213, Cond. G.
<b>Weight:</b>	5.1 oz (145 grams) (typical)
<b>Warranty:</b>	1 year

1. Conditions of Use: Class 2 power source, Type 4X indoor, 122°F (50°C) max. ambient.

### Wiring Code

Electrical Termination		Voltage Output	Current Output
H3	H4 / T4	Series 623/626/627	Series 625
Red	1	+ Excitation	+ Excitation
Black	2	Common	- Excitation
White	3	+ Output	Not used
Drain	4	Case Ground	Case Ground

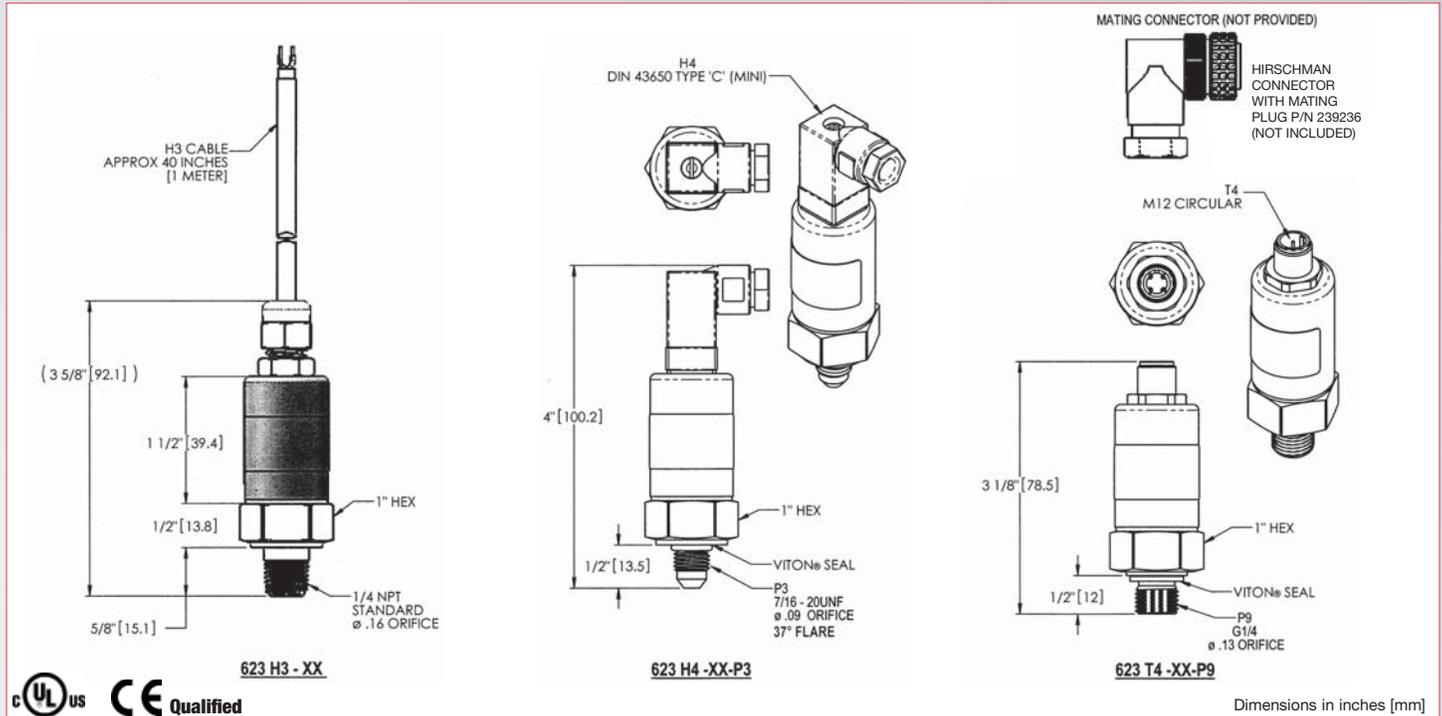
### T4 Pin Out Diagram



\* See product configurator for additional options.

\*\* Mating connector must be properly installed to preserve enclosure rating

## Technical Drawings



## Product Configurator

Example: **625 H3 -05**

### Base Model

625	4-20 mA analog output
623	0.5-5.5 VDC analog output
626	1-11 VDC analog output
627	0-10 VDC analog output

### Electrical Connection

H3	PVC Shielded & jacketed #22 AWG cable (1 meter)
H4	Mini-DIN 43650 Type "C" - mating connector included (Industry std-9.4mm)
T4 <sup>1</sup>	M12 Hirschman connector (mating connector NOT included)

### Pressure Range<sup>2,4</sup>

-21	0-30 PSI (0-2.07 BAR)
-26	0-75 PSI (0-5.17 BAR)
-05	0-150 PSI (0-10.34 BAR)
-07	0-300 PSI (0-20.69 BAR)
-27	0-750 PSI (0-51.72 BAR)
-11	0-1500 PSI (0-103.45 BAR)
-13	0-3000 PSI (0-206.9 BAR)
-16	0-6000 PSI (0-413.8 BAR)

### Process Connection

Blank	1/4" NPT Male
-P3	7/16-20 UNF Male (JIC 37°)
-P9	G1/4 Male (Gasket seal)

### Options

Blank	Standard
-Z1	Cleaned for oxygen service
-Z15	Calibrated in BAR
-Z10	1 to 5 V output (only available on 623)
-Z11	1 to 6 V output (only available on 623)
-Z12	0.5 to 4.5 V output (only available on 623)
-Z19	Built in pressure surge suppressor (0.031" orifice)
-Z21	Built in pressure surge suppressor (0.011" orifice)
-Z22	Combination options: P9 + Z15 + Z19
-Z23	Combination options: P9 + Z15 + Z21
-ZXXY <sup>3</sup>	Special Pressure Ranges
-Wxxx	Specify cable length in inches (H3 option)
-Q21	Use with 625H4 only. Same electrical pinout as previous UPA21 series

## Accessories

Order #	Description
239236 <sup>1</sup>	Hirschman mating connector (T4 electrical option)
239535-XX	Series of molded Hirschman mating connectors

- Note: 1. Mating connector: Hirschman # ELWIK A 4021 PG7 or equivalent (not included)  
 2. Other ranges available with the use of -ZXXY Option. Consult factory.  
 3. Add suffix ZXXY for special pressure range calibration. XX = significant digits. Y = number of trailing zeros. Example: 130 psi calibration: add -Z131.  
 4. To calibrate unit in 'BARS', select the closes pressure range then add suffix '-Z15' and 'ZXXY'. Example: 15 bar = 625H3-07-Z15-Z150