# **Non-Incendive Transducer**

#### **Features**

- High accuracy
- Protection in hazardous environments, Class I, Div 2
- Rugged all-welded stainless steel construction
- Superior EMI, ESD and RFI protection
- NEMA 4
- Built-in high pressure snubber (2000 psi and above)

### **Applications**

- Oil & gas pipelines
- Oil patch
- Cement plants
  - Gas transfers for fuel systems
- Refineries
- Gas panelsGas mixing systems
- Pulp and paper mills

Petrochemical plants

Coal and oil fired power plants

### **General Specifications\***

		Description Times
Accuracy (LH & R):	±0.25% FSO at 75°F (±0.5% for vacuum only [-23]) typical	Response Time:
Lawa Tawa Ctability	±0.5% FSO of calibration curve	Electrical
Long Term Stability:		Connection:
Typical Life Cycle:	100 million cycles	
Proof Pressure:	2 times rated pressure or 13,000 psi max.	
	(896 bar), whichever is less	Temperature Ranges:
Input:		Operating:
433:	Excitation voltage: 11 to 30 VDC	oporag.
436:	Excitation voltage: 14 to 30 VDC	Compensated:
435:	Excitation voltage: 12 to 28 VDC	·
Supply Current:	3.0 mA maximum (no load)	Storage:
Min. Load Resistance:	2K ohms (voltage series) Temperature Zero & Span:	
Output:		
433:	Output: 0.5 to 5.5 VDC	Vibration:
	Full scale output: 5.0 VDC ± 0.8%	Shock:
	Zero output: 0.5 VDC ± 0.4%	
436:	Output: 1 to 11 VDC	Approvals:
430.	Full scale output: 10 VDC $\pm$ 0.4%	
	Zero output: 1.0 VDC $\pm$ 0.2%	
435:	Output: 4 to 20 mA	
	Full scale output: 16 mA $\pm$ 1%	
	Zero output: 4 mA ± 2%	
Wetted Parts:	17-4 PH (fitting) & 300 stainless steel (sensor)	
Enclosure:	NEMA 4, 300 series stainless steel	
Pressure Connection:	1/4"-18 NPT male	

\* See product configurator for additional options.

			1
MILLIVOLT SERIES - 433 & 436			
(T4/T5)	(H3/H5)	Signal	<ul> <li>Wiring Code</li> </ul>
1	Red	+ Excitation	•••••
3	White	+ Output	
2	Black	Common	
4	Bare	Drain	
MILLIAMP SERIES - 435			
1	Red	+ Excitation	
2	Black	- Excitation	
4	Bare	Case Drain	

bration: 15 g's, 10-2000 Hz, MIL-STD 202 nock: 50 g's, 11 ms, MIL-STD 202 Method 213, Cond. G. oprovals: Nonincendive pressure transmitters are UL and cUL approved as telemetering equipment for use in Div. 2 hazardous locations as follows: Class I. Div. 2. Groups A. B. C & D Class II, Div. 2 Groups F & G Agency approval varies by electrical termination type as follows: H5(-E) models are cULus listed in UL File E146589, (WYMV, WYMV7). H3(-E), T4(-E) & T5 (-E) models are cURus recognized components in UL File E146589, (WYMV2, WYMV8). Weight: 433 & 436: 7.4 oz. (221 grams) to 1,000 psi 9.9 oz. (281 grams) 2,000 psi and higher 7.4 oz. (210 grams) to 1,000 psi 435: 9.4 oz. (266 grams) 2,000 psi and higher Warranty: 1 year warranty

Series 433, 435, 436



3 conductor for voltage series and 2 conductor for current series, 24 awg, PVC

-40° to 158°F (-40° to 70°C)

-40° to 158°F (-40° to 70°C) -40° to 185°F (-40° to 85°C)

jacketed, shielded cable, 3 ft. (1 m) long with integral strain relief and case ground

0.01% per °F over compensated range

2kHz

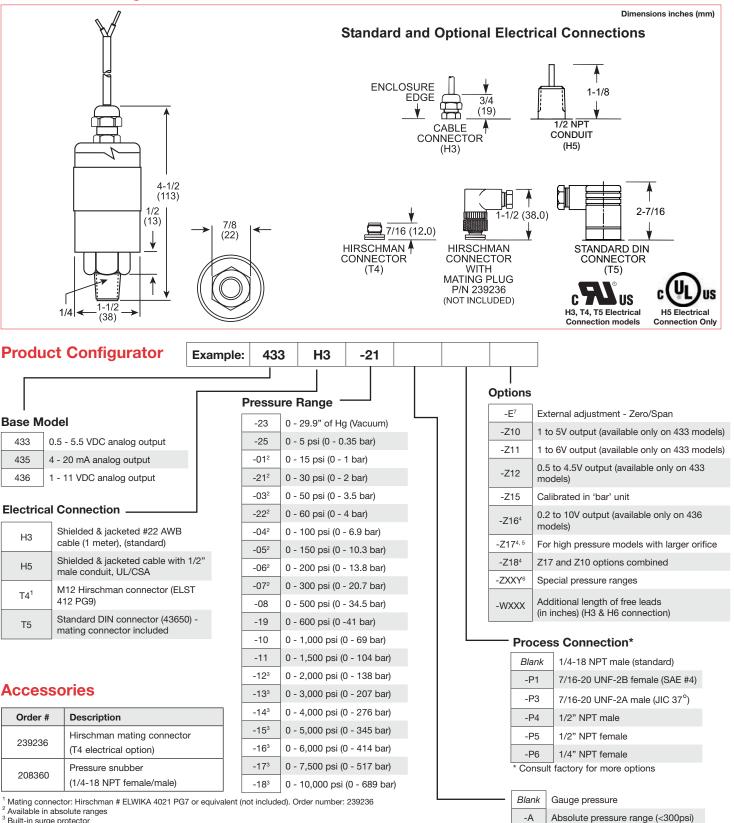
(standard).



## **Non-Incendive Transducer**

## Series 433, 435, 436

#### **Technical Drawings**



Built-in surge protector

Not UL Approved

For pressure >1,000 psi a 3/16 diameter pressure port orifice with no surge protector is offered.

Add suffix ZXXY for special pressure ranges. XX = significant digits. Y = number of trailing zeros. Example: for 230 psi callibration, add Z231

<sup>7</sup> Available with connector options H3 and T4 only



