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
- Cement plants
 - Gas transfers for fuel systems

CONTROL PRODUCTS CRANE Barksdale, Inc./Barksdale A Subsidiary of Crane Co.

Refineries

Oil patch

- Gas panels Gas mixing systems
- Pulp and paper mills

Petrochemical plants

Coal and oil fired power plants

General Specifications*

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

	MILLIVOLT SERIES - 433 & 436			
Wiring Code	Signal	(H3/H5)	(T4/T5)	
	+ Excitation	Red	1	
	+ Output	White	3	
	Common	Black	2	
	Drain	Bare	4	
	MILLIAMP SERIES - 435			
	+ Excitation	Red	1	
	- Excitation	Black	2	
Bark	Case Drain	Bare	4	
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Connection:	conductor for current series, 24 awg, PVC jacketed, shielded cable, 3 ft. (1 m) long with integral strain relief and case ground (standard).	
Temperature Ranges: Operating:	-40° to 158°F (-40° to 70°C)	
Compensated:	-40° to 158°F (-40° to 70°C)	
Storage:	-40° to 185°F (-40° to 85°C)	
Temperature Shift: Zero & Span:	0.01% per °F over compensated range	
Vibration:	15 g's, 10-2000 Hz, MIL-STD 202	
Shock:	50 g's, 11 ms, MIL-STD 202 Method 213, Cond. G.	
Approvals:	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	
435:	7.4 oz. (210 grams) to 1,000 psi 9.4 oz. (266 grams) 2,000 psi and higher	
Warranty:	1 year warranty	

2kHz



3 conductor for voltage series and 2

Series 433, 435, 436

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

⁷ Available with connector options H3 and T4 only

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See Barksdale's Standard Conditions of Sale • Specifications are subject to modification at any time • Bulletin #R0039-K • 03/15• ©2015 • Printed in the U.S.A.