

Intrinsically Safe Hammer Union



Shown with
optional Electrical
Connector Cage

APPLICATIONS

- Acidizing
- Choke & kill manifold
- Fracturing & cementing
- Mud logging & mud pumps
- Oil field & offshore
- Well head measurement

NOSHOK 628 Series transmitters are Canadian Standards Association approved for use in hazardous location applications as follows:

Intrinsically Safe Class I, DIV 1, Groups A,B,C,D, -40°C, Tamb<+85°C T4, Class II, DIV 1, Groups E,F,G, Class III, Class I, Zone 0 AEx/Ex ic IIC T4.

Non-Incendive Class I, DIV 2, Groups A,B,C,D, -40°C, Tamb<+85°C T4, Class II, DIV 2, Groups F,G, Class III, Class I, Zone 2 AEx/Ex ic IIC T4.

628 SERIES

- Ranges from 0 psig to 5,000 psig through 0 psig to 20,000 psig
- Current output
- Inconel X-750 wetted parts
- Canadian Standards Association approved
- NACE MR0175/ISO 15156 compliant
- Every sensor comes with a Certificate of Calibration
- Certifications pending:
 - Factory Mutual
 - ATEX
 - CE

SPECIFICATIONS

Output signal	4 mA to 20 mA, 2-wire
Pressure ranges	0 psig to 5,000 psig through 0 psig to 20,000 psig
Accuracy	±0.25% full scale (BFSL) (Includes the effects of non-linearity, hysteresis, non-repeatability, zero point and full scale errors)
Stability	≤ ±0.2% full scale for 1 year, non-accumulating
Response time	< 2 m/s
Durability	> 10,000,000 full scale cycles
Temperature ranges	Compensated 40 °F to 140 °F (5 °C to 60 °C) Zero effect is ±0.01% full scale/ °F Span effect is ±0.01% full scale/ °F Media -40 °F to 185 °F (-40 °C to 85 °C) Ambient -40 °F to 185 °F (-40 °C to 85 °C) Storage -40 °F to 185 °F (-40 °C to 85 °C)
Power requirement*	10 Vdc to 28 Vdc
Load limitations	≤ (VPower-10)/0.020 Amp
Proof pressure	1.5 times full scale (22,500 psi maximum)
Burst pressure	3 times full scale (22,500 psi maximum)
Measuring element	Inconel X-750
Connection	Inconel X-750
Housing material	316 stainless steel
Environmental rating	IP67 depending upon electrical connection
Electromagnetic rating	CE compliant to EMC norm EN 61326:1997/A1:1998 RFI, EMI and ESD protection
Electrical protection	Reverse polarity, over-voltage and short circuit protected
Shock	100 g's according to IEC 60068-2-27
Vibration	15 g's according to IEC 60068-2-6
Weight	Approximately 6 lb.

* Unregulated

ORDERING INFORMATION										
SERIES	628									
PRESSURE RANGES	5000	0 psig to 5,000 psig	6000	0 psig to 6,000 psig	10000	0 psig to 10,000 psig	15000	0 psig to 15,000 psig	20000	0 psig to 20,000 psig
ACCURACY	1	±0.25% full scale (BFSL)								
OUTPUT SIGNAL	1	4 mA to 20 mA, 2-wire								
WIRING CODE	A	E		H*						
(See Wiring Code Schematics below)	C	F								
	D	G								
PROCESS CONNECTIONS	14	2" Wing union (#1502)								
ELECTRICAL CONNECTIONS	3	6-pin Bendix (MIL-C-26482)				44	4-pin (MIL-C-5015)			
	36	Integral cable with gland								
OPTION	CH	Carrying Handle				EC	Electrical Connector Cage			

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

* H is the standard wiring code.

EXAMPLE

628 - 5000 - 1 - 1 A - 14 - 3 - CH

Series

Pressure range

Accuracy

Output signal

Wiring code

Process connection

Electrical connection

Option

628 Series

0 psig to 5,000 psig

±0.25% full scale

4 mA to 20 mA, 2-wire

A

2" wing union (#1502)

6-pin Bendix

Carrying Handle

WIRING CODE SCHEMATICS

A	Pin A	+ Supply	E	Pin A	+ Supply	G	Pin B	+ Supply
	Pin B	- Output		Pin B	- Output		Pin C	- Output
	Pin E	Ground		Pin E	+ Shunt Cal		Pin D	Ground
C	Red	+ Supply	F	Pin F	- Shunt Cal	H*	Pin A	+ Supply
	Black	- Output		Pin A	+ Supply		Pin B	- Output
D	Red	+ Supply		Pin B	- Output		Pin D	Ground
	Black	- Output		Pin C	+ Shunt Cal		Pin E	+ Shunt Cal
	White	- Shunt Cal		Pin D	- Shunt Cal		Pin F	- Shunt Cal
	Green	Ground		Pin E	Ground			

* H is the standard wiring code.

