

## Intrinsically Safe Hammer Union



## 628 SERIES



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 ia 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.

- 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
- 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
Service life	> 10,000,000 load 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% reading/ °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 61326:2014/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



**WARNING:** This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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

Series ..... 628 Series  
 Pressure range ..... 0 psig to 5,000 psig  
 Accuracy ..... ±0.25% full scale  
 Output signal ..... 4 mA to 20 mA, 2-wire  
 Wiring code ..... A  
 Process connection ..... 2" wing union (#1502)  
 Electrical connection .... 6-pin Bayonet (MIL-C-26482)  
 Option ..... Carrying Handle

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

### WIRING CODE SCHEMATICS

<b>A</b>	Pin A	V+	<b>E</b>	Pin A	V+	<b>G</b>	Pin B	V-	<b>J</b>	Pin A	V+
	Pin B	V-		Pin B	V-		Pin C	V+		Pin B	V-
	Pin E	Ground		Pin E	V+		Pin D	Ground		Pin C	- Shunt Cal
<b>C</b>	Red	V+	<b>F</b>	Pin F	- Shunt Cal	<b>H*</b>	Pin A	V+	<b>J</b>	Pin D	+ Shunt Cal
	Black	V-		Pin A	V+		Pin B	V-		Pin E	CASE GROUND, NOT CONNECTED**
	Red	V+		Pin B	V-		Pin D	Ground		Pin F	CASE GROUND, NOT CONNECTED**
<b>D</b>	Black	V-		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.

\*\* No internal connection to E or F.

