

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

- 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

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.



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			J					
	D	G								
PROCESS CONNECTIONS	14	2" Wing union (#1502)								
ELECTRICAL CONNECTIONS	3	6-pin Bayonet (MIL-C-26482)				44	4-pin (MIL-5015 Type)			
	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

1A

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 Bayonet (MIL-C-26482)

Carrying Handle

WIRING CODE SCHEMATICS

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

