

## **APPLICATIONS**

- Hydraulics & pneumatics
- Mobile hydraulics
- Pumps & compressors
- Refrigeration controls
- Transportation

## 650 SERIES

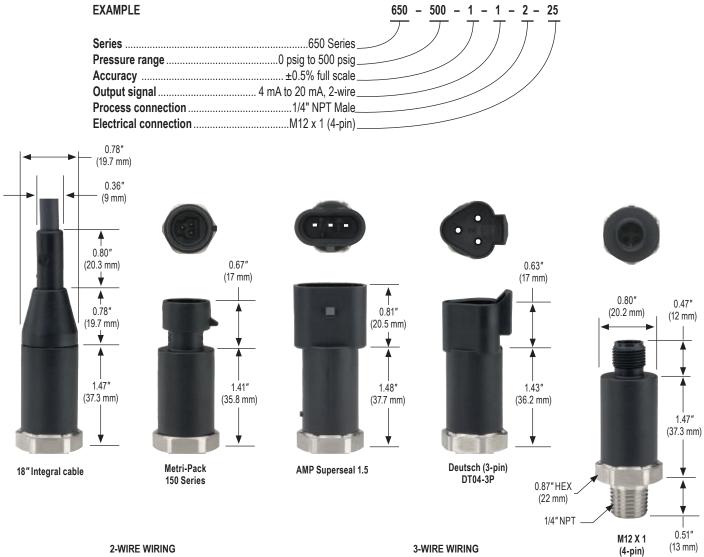
- Ranges from 0 psig to 100 psig through 0 psig to 8,000 psig
- · Current and voltage outputs available
- · Stainless Steel wetted parts
- · CE compliant to suppress RFI, EMI and ESD

	SPECIFICATIONS						
Output signals	4 mA to 20 mA 2-wire, or 1 Vdc to 5 Vdc 3-wire						
Pressure ranges	0 psig to 100 psig through 0 psig to 8,000 psig						
Accuracy	±0.50% 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	< 5 ms (between 10% and 90% full scale); restrictor port I.D. to dampen pulsations						
Service life	> 100,000,000 load cycles						
Temperature ranges	Compensated 32 °F to 176 °F (0 °C to 80 °C) Zero effect ±0.008% full scale/ °F Span effect ±0.008% full scale/ °F Media -40 °F to 257 °F (-40 °C to 125 °C) Ambient -40 °F to 212 °F (-40 °C to 100 °C) Storage -40 °F to 248 °F (-40 °C to 120 °C)						
Power requirement*	8 Vdc to 36 Vdc (4 mA to 20 mA, 2-wire, 0 Vdc to 5 Vdc, 3-wire, 1 Vdc to 5 Vdc, 3-wire, 0.5 Vdc to 4.5 Vdc, 3-wire)  14 Vdc to 36 Vdc (0 Vdc to 10 Vdc, 3-wire)  5 Vdc ± 10% (0.5 Vdc to 4.5 Vdc ratiometric, 3-wire)						
Load limitations	$\leq$ (VPower–10)/0.020 amp for 4 mA to 20 mA output $\leq$ 5,000 $\Omega$ for 1 Vdc to 5 Vdc output $\leq$ 10,000 $\Omega$ for 0 Vdc to 10 Vdc output $\leq$ 4,500 $\Omega$ for 0.5 Vdc to 4.5 Vdc output						
Proof pressure	2 times full scale						
Burst pressure	8 times full scale for ranges 0 psi to 100 psi through 0 psi to 1,500 psi 4 times full scale for ranges 0 psi to 2,000 psi through 0 psi to 8,000 psi						
Measuring element	17-4PH Stainless Steel						
Connection	316 Stainless Steel						
Housing material	PBT - fiber reinforced plastic						
Environmental rating	IP67 for M12x1 (4-pin) electrical connection and Metri-Pack connection; IP69K (steam jet cleaning) for cable 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 protection						
Shock	500 g's according to IEC 60068-2-27						
Vibration	20 g's according to IEC 60068-2-6						
Weight	Approximately 2.5 oz.						

<sup>\*</sup> Unregulated

ORDERING INFORMATION										
SERIES	650									
PRESSURE	100	0 psig to 100 psig	300	0 psig to 300 psig	600	0 psig to 600 psig	1500	0 psig to 1,500 psig	5000	0 psig to 5,000 psig
RANGES	150	0 psig to 150 psig	400	0 psig to 400 psig	750	0 psig to 750 psig	2000	0 psig to 2,000 psig	8000	0 psig to 8,000 psig
	200	0 psig to 200 psig	500	0 psig to 500 psig	1000	0 psig to 1,000 psig	3000	0 psig to 3,000 psig		
		psig = gauge pressure	Other ranges av	railable on request						
ACCURACY	1	±0.5% full scale (BFSL)								
OUTPUT SIGNALS	1	4 mA to 20 mA, 2-wire	3	1 Vdc to 5 Vdc, 3-wire	5	0 Vdc to 10 Vdc, 3-wire	13	0.5 Vdc to 4.5 Vdc rati	ometric, 3	3-wire
PROCESS	2	1/4" NPT male	24	7/16 - 20 2B Schrader	45	7/16-20 SAE J514 FIG 34B (Non-Adjustable)				
CONNECTIONS	10	G1/4B male	35	7/16 - 20 with 45° flare						
ELECTRICAL	25	M12 x 1 (4-pin)	36	18" Integral cable IP67	45	AMP Superseal 1.5				
CONNECTIONS	34	Metri-Pack 150 series	39	18" Integral cable IP69K	46	Deutsch (3-pin) DT04-3P	)			

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for minimum quantity requirements and delivery information.



Wiring	Cable	M12	Metri- Pack	AMP Superseal	Deutsch DT04-3P		
+ Supply	Brown	1	В	3	А		
+ Output	Black	3	Α	1	В		

Wiring	Cable	M12	Metri- Pack	AMP Superseal	Deutsch DT04-3P
+ Supply	Brown	1	В	3	Α
Common	Green	3	А	1	В
+ Output	White	4	С	2	С