Intelligent Indicating Transmitter/Switch - IO-Link

PTI15 SERIES



- Compound and standard ranges from 0 psig to 10 psig through 0 psig to 7,500 psig
- 316L Stainless Steel wetted parts
- Current and voltage outputs available
- 7 different output configurations available
- Advanced functionality with optional IO-Link
- Display and electrical connection can be rotated independently
- RoHS compliant

APPLICATIONS

- Hydraulics & pneumatics
- Power generation
- Pumps & compressors
- Stamping & forming presses
- Water & wastewater

SPECIFICATIONS

Pressure ranges	Compound and standard ranges from 0 psig to 10 psig through 0 psig to 7,500 psig
Switching parameters	Individually adjustable via external control keys
Number	1 or 2 (PNP or NPN)
Function	N.O., N.C., window, hysteresis (freely adjustable)
Contact rating	250 mA max.
Response time	≤5 ms
Accuracy	≤ 0.5 % of span
Switch point	.25 to 100% of full scale
Hysteresis	Fully adjustable
Transmitter parameters	
Output signal	4 mA to 20 mA or 0 Vdc to 10 Vdc; programmable and freely adjustable
Accuracy	≤±0.5% of span including non-linearity, hysteresis, zero offset and end value deviation (corresponds to measured error per IEC 61298-2)
Non-repeatability	< 0.1% of span (IEC 61298-2)
Adjustment	Freely scalable within the range of 5:1
IO-Link	Version 1.1.4
Service life	100,000,000 load cycles
Temperature ranges	Compensated 32 °F to 176 °F (0 °C to 80 °C) Media -4 °F to 185 °F (-20 °C to 85 °C) Ambient -4 °F to 176 °F (-20 °C to 80 °C) Storage -4 °F to 158 °F (-20 °C to 70 °C)
Display	14 segment-LED, red 4-digit, height 0.35"
Power requirement*	15 - 35 Vdc
Current consumption	Max. 45 mA for versions without 4-20 mA output signal, Max. 70 mA for versions with 4-20 mA output signal, Total consumtpion max. 600 mA including switching current
Proof pressure	2 times full scale
Measuring element	<150 psi: 316L Stainless steel ≥150 psi: 316L, PH grade Stainless steel
Housing material	304 Stainless steel
Connection	316 stainless steel
Environmental rating	IP65 and IP67 per IEC 60529
Electromagnetic rating	RFI, EMI and ESD protection
Electrical protection	Protected against reverse polarity, over-voltage and short circuit
Shock	> 50 g's according to IEC 60068-2-27
Vibration	> 20 g's according to IEC 60068-2-6
Weight	Approx 0.49 lb.

* Unregulated

WARNING: This product can expose you to chemicals including Lead and Nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Adaptive Industrial Solutions | sales@adaptiveind.com | (877) 818-5009

ORDERING INFORMATION

SERIES	**PTI15**						
PRESSURE RANGES	**15psiv**	-14.5 psig to 0 psig	**15psig**	0 psig to 15 psig	**1000psig**	0 psig to 1,000 psig	**30psia** 0 psia to 30 psia
	15psic	-14.5 psig to 15 psig	**25psig**	0 psig to 25 psig	**1500psig**	0 psig to 1,500 psig	**50psia** 0 psia to 50 psia
	30psic	-14.5 psig to 30 psig	**30psig**	0 psig to 30 psig	**2000psig**	0 psig to 2,000 psig	**100psia** 0 psia to 100 psia
	50psic	-14.5 psig to 50 psig	**50psig**	0 psig to 50 psig	**3000psig**	0 psig to 3,000 psig	**160psia** 0 psia to 160 psia
	100psic	-14.5 psig to 100 psig	**100psig**	0 psig to 100 psig	**5000psig**	0 psig to 5,000 psig	**200psia** 0 psia to 200 psia
	160psic	-14.5 psig to 160 psig	**160psig**	0 psig to 160 psig	**7500psig**	0 psig to 7,500 psig	**300psia** 0 psia to 300 psia
	200psic	-14.5 psig to 200 psig	**200psig**	0 psig to 200 psig	**10psia**	0 psia to 10 psia	
	300psic	-14.5 psig to 300 psig	**300psig**	0 psig to 300 psig	**15psia**	0 psia to 15 psia	
	10psig	0 psig to 10 psig	**500psig**	0 psig to 500 psig	**25psia**	0 psia to 25 psia	
	psiv = vacuum gauge pressure psic = compound gauge pressure psig = gauge pressure psia = absolute pressure Other ranges available upon request.						
ACCURACY	**1** ±0.5% (of span, non-linearity, BFSL per IEC 61298-2 at reference conditions)						
SWITCH-OUTPUT	**1** 2 N.O. or N.C. (PNP or NPN)				**5** 2 N.O. or N.C. switch (PNP/NPN) with 0 Vdc to 10 Vdc*		
	2 1 N.O. or N.C. (PNP or NPN) with 4 mA to 20 mA				**6** 1 N.O. or N.C. switch (PNP/NPN) with 4 mA to 20 mA/0 Vdc to 10 Vdc **		
	3 1 N.O. or N.C. (PNP or NPN) with 0 Vdc to 10 Vdc						
	4 2 N.O. or N.C. (PNP or NPN) with 4 mA to 20 mA*				**7** 2 N.O. or N.C. switch (PNP/NPN) with 4 mA to 20 mA/0 Vdc to 10 Vdc *, **		
PROCESS CONNECTIONS	**2** 1/4" NPT male		**10** G1/4B EN837		**83** G 1/2 B EN837		
	8 1/2" NPT male		**45** 7/16-20 SAE J514 FIG 34B (Non-Adjustable)				
ELECTRICAL CONNECTIONS	**25** M12 x 1 (4-pin)		**48** M12 x 1 (5-pin)				
OPTION	**IOL** With IO-Link		**ST8** Threaded Orifice (0.8 mm)				

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

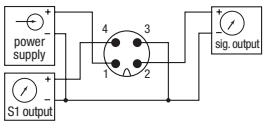
* Available only with a M12 x 1 (5-pin) connector
** Can switch between 4 mA to 20 mA / 0 Vdc to 10 Vdc

EXAMPLE

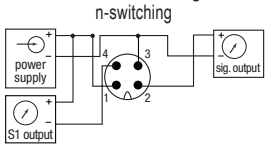
PTI15 – 15psig – 1 – 1 – 2 – 25 – IOL

Series .....PTI15 Series
Pressure Range..... 0 psig to 15 psig
Accuracy .....±0.5% of span (BFSL)
Output-Switch..... 2 N.O. or N.C. (PNP or NPN)
Process connection .....1/4 NPT male
Electrical connection ..... M12 x 1 (4-pin)
Option.....With IO-Link

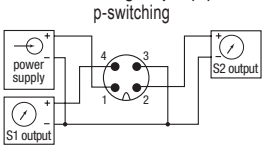
1 switching output (-2, -3, -6) with 4 mA to 20 mA signal†
p-switching



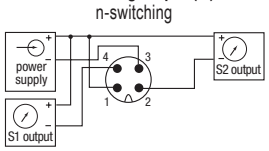
1 switching output (-2, -3, -6) with 4 mA to 20 mA signal†
n-switching



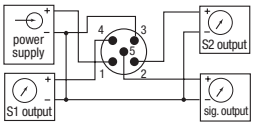
2 switching output (-1)
p-switching



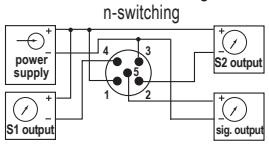
2 switching output (-1)
n-switching



2 switching output (-4, -5, -7) with 4 mA to 20 mA signal†
p-switching



2 switching output (-4, -5, -7) with 4 mA to 20 mA signal†
n-switching



† Also applies to 0 Vdc to 10 Vdc output

