Sanitary Pressure & Level Transmitters "SNORKEL" Pressure & Level Transmitter

CE A



304 Series shown with transparent cover

APPLICATIONS

- Tank level measurement
- Food & beverage
- Dairy
- Breweries
- Chemical processing
- Pharmaceutical

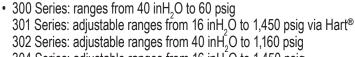
FEATURES & BENEFITS

300/301 Series

- Cable connection only (no housing)
- Active temperature compensation
- Fixed range (300 Series)
- Range adjustment with Hart[®] (301 Series)
- 10:1 Turn down (301 Series)
- **302 Series**
- All polished Stainless Steel housing
- Active temperature compensation
- Zero/span adjustable
- 4:1 Turn down

304 Series

- All polished Stainless Steel housing
- Active temperature compensation
- Accuracy 0.1% of adjusted span
- 10:1 Turn down
- Easy programming and range adjustment without test pressure via on-board display
- Hart[®] protocol available



30 SERIES

- 304 Series: adjustable ranges from 16 inH₂O to 1,450 psig • Hart[®] signal output available on 301 & 304 Series Transmitters
- 316 Stainless Steel wetted parts
- · Strong flush diaphragm with minimal fill volume
- · Can be cleaned-in-place (CIP) or steamed-in-place (SIP)
- 3A certified



	SERIES	SPECIFICATIONS	
Output signals	All	4 mA to 20 mA 2-wire, 4 mA to 20 mA 2-wire and Hart® signal (301 & 304 Series only)	
Pressure ranges	300 Series	Ranges from 40 inH ₂ O to 60 psig	
	302 Series	Adjustable ranges from 40 inH ₂ 0 to 1,160 psig	
	301/304 Series	Adjustable ranges from 16 inH ₂ 0 to 1,450 psig	
Accuracy	300//302 Series	0.2% of adjusted span	
	301/304 Series	0.1% of adjusted span	
Stability	All	<0.1%/year	
Adjustment	301 Series	Hart [®] signal	
	302 Series	Zero and span internally	
	304 Series	By 3 push buttons on display or optional Hart® signal	
Response time	All	<150 ms	
Service life	All	>10 years	
Temperature ranges	300/301 Series	14 °F to 158 °F (-10 °C to 70 °C)	
	302/304 Series	-4 °F to 212 °F (-20 °C to 100 °C) ; 293 °F (145 °C) for 45 mir	
Power requirement*	All	12 Vdc to 36 Vdc	
Measuring element	All	316L Stainless Steel (Hastelloy C, Tantalum or Gold plated optional)	
Connection	All	316 Stainless Steel	
Housing material	All	304 Stainless Steel (316 Stainless Steel optional)	
Environmental rating	300/301 Series	IP68	
	302/304 Series	IP66 (IP68 optional)	
Electrical protection	All	IP66 (NEMA 4X), IP68 (NEMA 6) optional	
Weight		Weight is dependent on model and cable length	

* Unregulated



WARNING: This product can expose you to chemicals including Nickel, which is 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

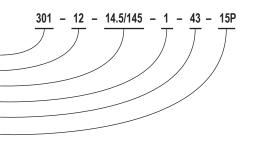
ORDERING INFORMATION						
SERIES	300		302			
JERIEJ	300	Adjustable transmitter with Hart [®] signal	302	Intelligent transmitter		
TRI-CLAMP SIZE	12	, ,	24	0		
TRI-GLAWIP SIZE	12	=	24	3		
300 SERIES			400		45	O pointo 15 poin
PRESSURE RANGES	40 inH ₂ O	0 inH ₂ O to 40 inH ₂ O	2	0 inH ₂ O to 120 InH2O	15	0 psig to 15 psig
(Fixed)	-	$0 \text{ in H}_2 \text{O to } 60 \text{ in H}_2 \text{O}$		0 psig to 5 psig	30	0 psig to 30 psig
. ,	80 inH ₂ O	$0 \text{ inH}_2 \text{O to } 80 \text{ inH}_2 \text{O}$	10	0 psig to 10 psig	60	0 psig to 60 psig
301 SERIES PRESSURE RANGES	16/160 inH ₂ O	0 in $\rm H_2O$ to 16 in $\rm H_2O$ to 0 in $\rm H_2O$ to 160 in $\rm H_2O$	14.5/145	0 psig to 14.5 to 0 psig to 145 psig	290/1450	0 psig to 290 psig to 0 psig to 1,450 psig
(Adjustable with Hart®)	47/470 inH ₂ O	0 inH ₂ O to 47 inH ₂ O to 0 inH ₂ O to 470 inH ₂ O	72.5/435	0 psig to 72.5 psig to 0 psig to 435 psig		
302 SERIES PRESSURE RANGES	40/160 inH ₂ O	$0 \text{ inH}_2 \text{O to } 40 \text{ inH}_2 \text{O to } 0 \text{ inH}_2 \text{O to } 160 \text{ inH}_2 \text{O}$	14.5/58	0 psig to 14.5 to 0 to 58 psig	232/725	0 psig to 232 psig to 0 psig to 725 psig
(Adjustable)	160/277 inH ₂ O	0 inH ₂ O to 160 inH ₂ O to 0 inH ₂ O to 277 inH ₂ O	36/145	0 psig to 36 psig to 0 psig to 145 psig	580/1160	0 psig to 580 psig to 0 psig to 1,160 psig
	277/609 inH ₂ O	0 inH ₂ O to 277 to 0 inH ₂ O to 609 inH ₂ O	100/232	0 psig to 100 psig to 0 psig to 232 psig		
304 SERIES PRESSURE RANGES	16/160 inH ₂ O	$0 \text{ inH}_2 \text{O to } 16 \text{ inH}_2 \text{O to } 0 \text{ inH}_2 \text{O to } 160 \text{ inH}_2 \text{O}$	14.5/145	0 psig to 14.5 to 0 psig to 145 psig	290/1450	0 psig to 290 psig to 0 psig to 1,450 psig
(Intelligent)	47/470 inH ₂ O	0 inH ₂ O to 47 inH ₂ O to 0 inH ₂ O to 470 inH ₂ O	72.5/435	0 psig to 72.5 psig to 0 psig to 435 psig		
ACCURACIES	1	0.2% of adjusted span*				
OUTPUT SIGNALS	1	4 mA to 20 mA, 2-wire	43	4 mA to 20 mA, 2-wire and Hart® signal**		
ELECTRICAL	25	M12 x 1 (4-pin)	71	PG9 Cable Gland		
	28	1/2" NPT Female				
CABLE LENGTHS $^{\dagger \dagger}$	15P	15' Polyurethane cable	30P	30' Polyurethane cable		
OPTIONS	JB	Cable Junction Box	TC	Transparent Cover (for display)***		

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

* Standard accuracy on the 304 Series is ±0.1% of adjusted span
** Required for the 301 Series, optional for the 304 Series
*** Available for the 304 Series only
† Available for the 302 and 304 Series only
† Additional cable lengths available, consult factory

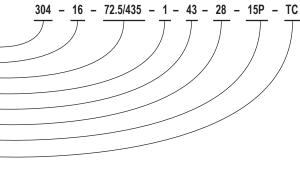
EXAMPLE

Tri-Clamp size Pressure range	
Output signal	



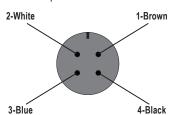
EXAMPLE

	0 psig to 72.5 psig to 0 psig to 435 psig -
Accuracy	0.1% of adjusted span -
Output signal	
Electrical connection	
Cable length	
Option	Transparent Cover



M12 x 1 (4-PIN) WIRING

1	Brown	V+	
2	White	V-	
3	Blue	Not used	
4	Black	Not used	





* 300 Series fixed range is 6.22" (158 mm)



*1-1/2", 2" and 3" Tri-Clamp connections available







*1-1/2", 2" and 3" Tri-Clamp connections available