

11301-TG(TA) Smart Gauge / Absolute Pressure Transmitter

GENERAL

11301-TG(TA) is a digital pressure transmitter designed for industrial pressure measurement applications.

The 11301-TG(TA) offer configurations for gauge pressure, absolute pressure and vacuum including integrated solutions for industrial applications.

FEATURES

- Updating time of output current in 90 ms
- Improved performance, increased accuracy and greater stability
- Two years stability of 0.2%
- 0.1% accuracy
- Parameter setting by keypad directly
- 4-20 mA output plus direct digital HART communication
- Automatic zero calibration by press-button
- Explosion proof and weather proof housing

STANDARD SPECIFICATION

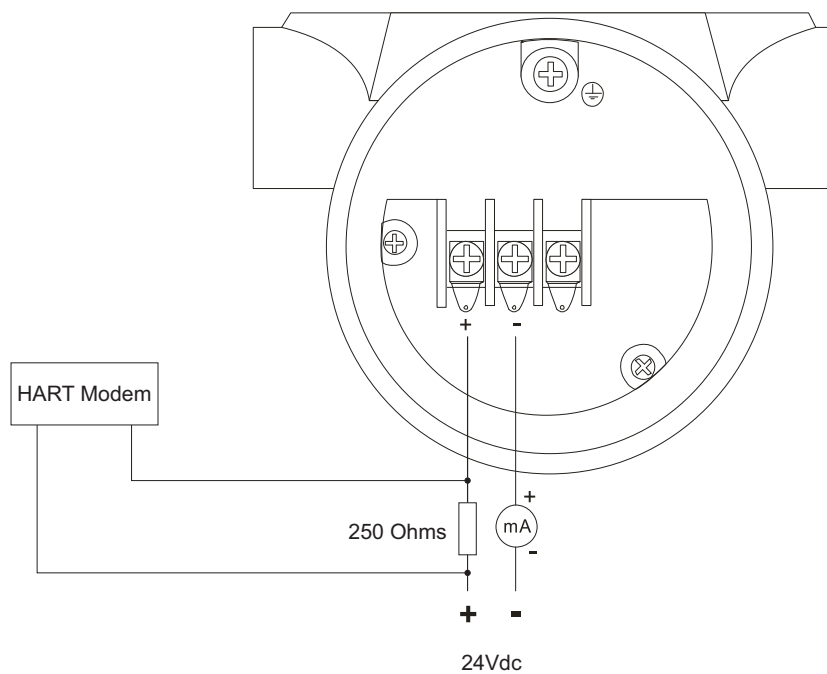
- Process Fluid: Liquid, Gas or Vapor
- Application: Absolute Pressure, Gauge Pressure, Vacuum
- Measuring Range:
0 - 31 KPa ~ 0 - 186.8 KPa (Minimum)
0 - 3440 KPa ~ 0 - 20680 KPa (Maximum)
- Accuracy : +/- 0.1% of span
- Stability: +/- 0.2% of URL for 2 years
- Working Temperature : -25 to +95 °C
- Max. Pressure : 25 MPa
- Material:
Connection: SUS 304 / SUS 3016
Diaphragm: SUS 316L / Tantalum
Name / Tag Plate : Stainless Steel 304 / Stainless Steel 316
Housing : Low copper cast aluminum alloy with polyurethane paint
- Protection Class: IP66 (Standard)
Intrinsically Safe Exia IIC T6 Ga
Explosion proof Exd IIC T6 Gb
- Display : 5 Digits programmable & 0-100% Bargraph
- Display Unit:
Standard 22 different engineering unit
5 Digits programmable for special unit
- Keypad : 3 internal keys for programming and output setting
- Current Output : 4 - 20 mA 2 wires with Hart signal
Load: Rohm = (Vdc-9)*50
- Power Supply : 9 - 36 VDC
- Damping : 0 - 32 seconds
- Response Time : 200 mS
- Mounting : Bracket on 2" Pipe
- Humidity Limit : 0 to 100% Relative Humidity
- Turn on Time : 2 Seconds with minimum damping
- Zero Calibration : Automatic zero calibration by push-button
- Cable Entry : M20 Conduit Threads / 1/2" NPT (Female)
- Temperature Effect : +/-0.18% ~ +/-0.5% of span per 20 °C
- Vibration Effect : +/-0.05% of URL per g to 200 Hz in any axis
- EMI/RFI Effect : Follow SAMA PMC 33.1 from 20 to 1000MHz and for field strengths up to 30 V/m
- Process Connection:
1/2" - 14 NPT Male / 1/2" - 14 NPT Female / M20*1.5 / G 1/2"
- Ambient Temperature : -25 to +80 °C
- Dimensions : 103 mm (W) * 166 mm (H) * 126 mm (D)
- Weight : 1.3 Kg



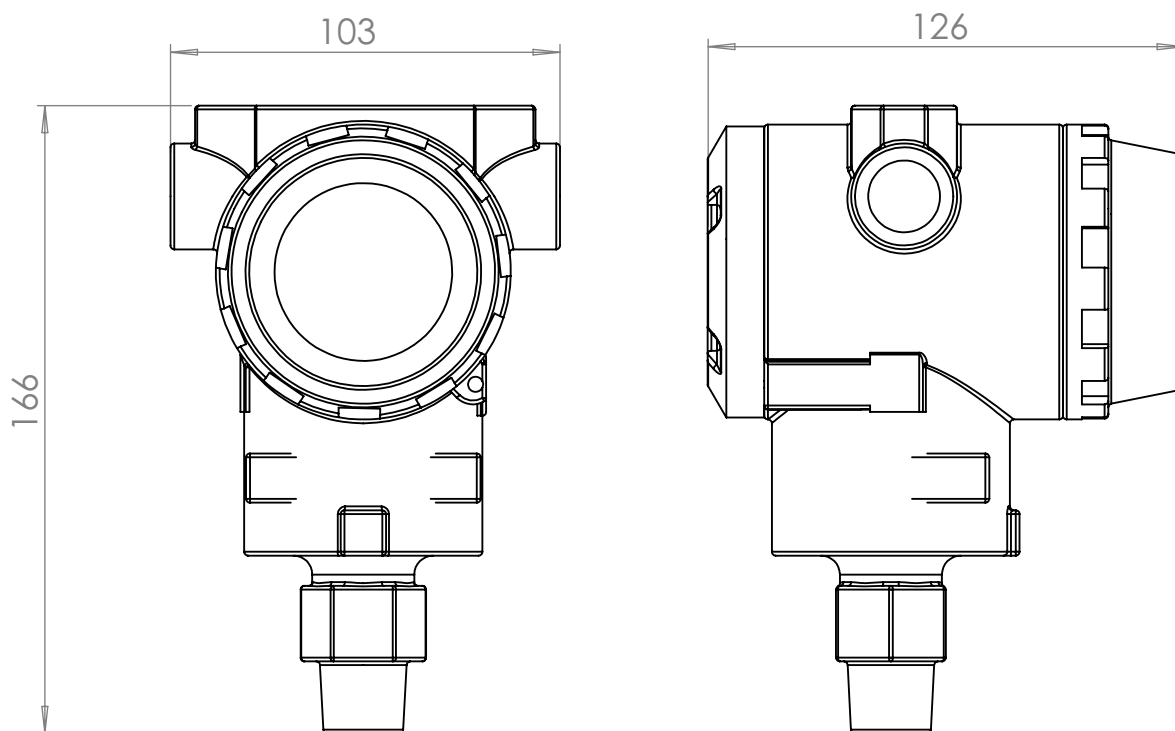
MEASURING RANGE

Range Code	Range Limits		Transmitter type	
	Min. Span	Max. Span	Gauge Pressure	Absolute Pressure
5	0 ~ 31 KPa	0 ~ 186.8 KPa	◆	◆
	0 ~ 3161 mmH2O	0 ~ 19048 mmH2O		
	0 ~ 310 mbar	0 ~ 1868 mbar		
6	0 ~ 117 KPa	0 ~ 690 KPa	◆	◆
	0 ~ 11930 mmH2O	0 ~ 70360 mmH2O		
	0 ~ 1170 mbar	0 ~ 6900 mbar		
7	0 ~ 345 KPa	0 ~ 2068 KPa	◆	◆
	0 ~ 35.18 mH2O	0 ~ 210.9 mH2O		
	0 ~ 3.45 bar	0 ~ 20.68 bar		
8	0 ~ 1170 KPa	0 ~ 6890 KPa	◆	
	0 ~ 119.3 mH2O	0 ~ 702.6 mH2O		
	0 ~ 11.7 bar	0 ~ 68.9 bar		
9	0 ~ 3450 KPa	0 ~ 20680 KPa	◆	
	0 ~ 35 Kgf/cm ²	0 ~ 210 Kgf/cm ²		
	0 ~ 34.46 bar	0 ~ 206.8 bar		

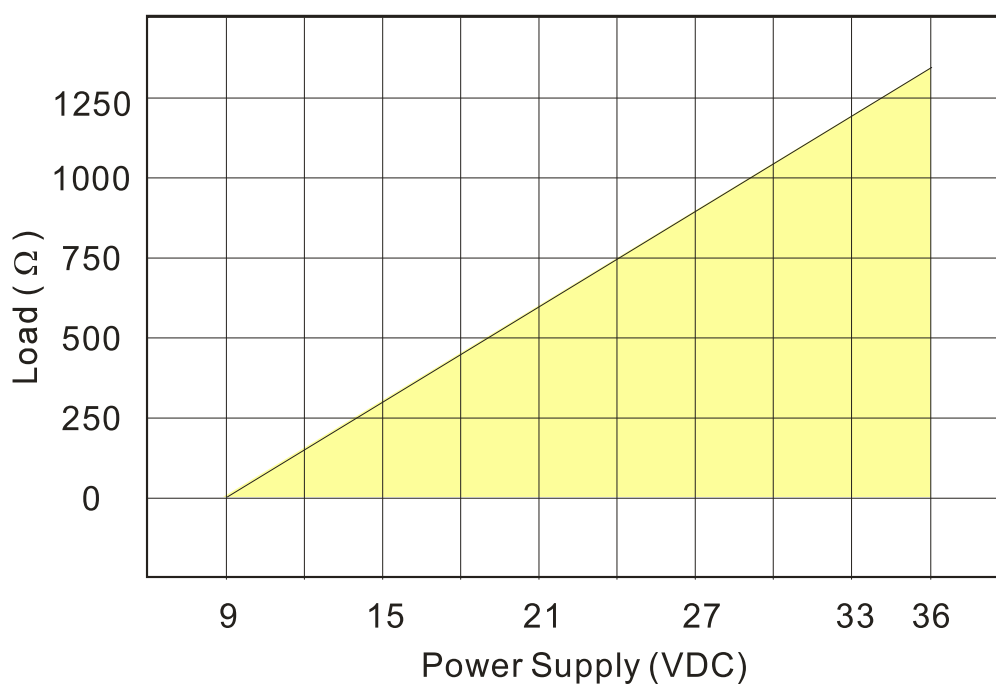
WIRING DIAGRAM



➤ DIMENSIONS



➤ Supply Voltage VS Loop Load



MODEL SELECTION GUIDE

Item	Code	Specification
11301-TG		Gauge Pressure Transmitter
11301-TA		Absolute Pressure Transmitter
Measurement Range	5	0~186.8 Kpa
	6	0~690 Kpa
	7	0~2068 Kpa
	8	0~6890 Kpa
	9	0~20680 Kpa
Output	S	4-20mA, HART Protocol, Linear Output
Diaphragm Material	2	Stainless Steel 316L
	3	Hastelloy C
	4	Tantalum
Fill Fluid	2	Silicone Oil
	3	Fluorine Oil
Process Connection	D	1/2" NPT F
	A	M20*1.5
	B	1/2" NPT M
	C	G 1/2"
	M	Customized
Cable Entry	1	M20*1.5
	2	1/2" NPT
Mounting Bracket	B00	None
	B58	Mounting Bracket
Optional	d	Intrinsically Safe Type, Flameproof (Exd IIC T6 Gb)
	i	Intrinsically Safe (Exia IIC T6 Ga)
	M3	LCD Display
	K1	Degreasing Treatment



Fertron reserves the right to make changes to the design and functionality of any product without notice. Fertron is not responsible for the improper use or application of no product. Our logo is a registered trademark of Fertron. HART is a brand registered with the HART Communication Foundation. © 2024 Fertron. All the rights reserved.

*Fertron Automação Industrial Ltda
Av. César Mingossi, 108 • Jardim das Palmeiras, Sertãozinho SP, Brazil 14177-000
Tel: +55 (16) 3946.5899 • vendas@fertron.com.br •
www.fertron.com.br*