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ДАТЧИКИ ДАВЛЕНИЯ

Технические характеристики
на STD924, STD930, STD974



ST 3000 Smart Pressure Transmitter

Series 900 Differential Pressure Models

Specifications

34-ST-03-65

Introduction

In 1983, Honeywell introduced the first Smart Pressure Transmitter— the ST 3000®. In 1989, Honeywell launched the first all digital, bi-directional protocol for smart field devices. Today, its ST 3000 Series 900 Differential Pressure Transmitters continue to bring proven “smart” technology to a wide spectrum of pressure measurement applications, from furnace combustion airflow rate to hydrostatic tank gauging. The ST 3000 S900 Differential Pressure Transmitter can be used with any primary flow element to provide proven, repeatable flow measurement.

All ST 3000 transmitters can provide a 4-20 mA output, Honeywell Digitally Enhanced (DE) output, HART® output, or FOUNDATION™ Fieldbus output. When digitally integrated with Honeywell’s Process Knowledge System™, EXPERION PKS™, ST 3000 instruments provide a more accurate process variable as well as advanced diagnostics.

Honeywell’s cost-effective ST 3000 S900 transmitters lead the industry in reliability and stability:

- Stability = ±0.01% per year
- Reliability = 470 years MTBF

Models		
STD924	0 to 400 inH ₂ O	0 to 1,000 mbar
STD930	0 to 100 psi	0 to 7 bar
STD974	0 to 3,000 psi	0 to 210 bar



Figure 1 - Series 900 Differential Pressure Transmitters feature proven piezoresistive sensor technology.

The devices provide comprehensive self-diagnostics to help users maintain high uptime, meet regulatory requirements, and attain high quality standards. S900 transmitters allow smart performance at analog prices. Accurate, reliable and stable, Series 900 transmitters offer greater turndown ratio than conventional transmitters

All ST 3000 transmitters can be ordered to provide one of the following output communication options.

Communications options
4-20 mA
Honeywell Digitally Enhanced (DE)
HART® (versions 5.x or 6.x)
FOUNDATION™ Fieldbus

Description

The ST 3000 transmitter can replace any 4 to 20 mA output transmitter in use today and operates over a standard two-wire system.

The measuring means is a piezoresistive sensor, which actually contains three sensors in one. It contains a differential pressure sensor, a temperature sensor, and a static pressure sensor.

Microprocessor-based electronics provide higher span-turndown ratio, improved temperature and pressure compensation, and improved accuracy.

The transmitter's meter body and electronics housing resist shock, vibration, corrosion, and moisture. The electronics housing contains a compartment for the single-board electronics, which is isolated from an integral junction box. The single-board electronics is replaceable and interchangeable with any other ST 3000 Series 100 or Series 900 model transmitter.

Like other Honeywell transmitters, the ST 3000 features two-way communication and configuration capability between the operator and the transmitter through several Honeywell field-rated portable configuration devices, including the Smart Field Communicator (SFC) and the Multiple Communication Configurator (MC ToolKit). While both are made for in-field use, the MC Toolkit also can be ordered for use in intrinsically safe environments.

The SCT 3000 Smartline® Configuration Toolkit provides an easy way to configure instruments using a personal computer. The toolkit enables configuration of devices before shipping or installation. The SCT 3000 can operate in the offline mode to configure an unlimited number of devices. The database can then be loaded down-line during commissioning.

When digitally integrated with Honeywell's Experion® Process Knowledge System or other TDC/TPS systems, ST 3000 instruments provides local measurement accuracy to the system level without adding typical A/D and D/A converter inaccuracies as well as providing advantages from the many other on-board advanced diagnostic features. Honeywell's high-performance ST 3000 S100 transmitters lead the industry in: Accuracy, Stability, Reliability, Rangeability and Warranty.

Features

- Choice of linear or square root output conformity is a simple configuration selection.
- Direct digital integration with Experion PKS and other control systems provides local measurement accuracy to the system level without adding typical A/D and D/A converter inaccuracies.
- Unique piezoresistive sensor automatically compensates input for temperature and static pressure. Added "smart" features include configuring lower and upper range values, simulating accurate analog output, and selecting preprogrammed engineering units for display.
- Smart transmitter capabilities with local or remote interfacing means significant manpower efficiency improvements in commissioning, start-up, and ongoing maintenance functions.

Advanced Diagnostics

ST 3000 is now available for both HART® 6 and Foundation™ Fieldbus with advanced diagnostics that minimize unplanned plant outages, minimize maintenance costs and by providing the industry's most reliable transmitter.

- Provide advanced warning of possible failure events and avoid costly shutdowns.
- Three levels of failure reporting
- Comprehensive list of on-board diagnostics (Ref. ST 3000 User manual with HART® 6, 34-ST-25-17 Rev: June 09 and Foundation™ Fieldbus option manual 34-ST-25-15 Rev: June 09)

Operating Conditions – All Models

Parameter	Reference Condition (at zero static)		Rated Condition		Operative Limits		Transportation and Storage	
	°C	°F	°C	°F	°C	°F	°C	°F
Ambient Temperature	25±1	77±2	-40 to 85	-40 to 185	-40 to 85	-40 to 185	-55 to 125	-67 to 257
Meter Body Temperature	25±1	7±2	-40 to 110 ¹	-40 to 230 ¹	-40 to 125	-40 to 257	-55 to 125	-67 to 257
Humidity RH	10 to 55		0 to 100		0 to 100		0 to 100	
Vacuum Region – Minimum Pressure All Models Except STD110 mmHg absolute inH ₂ O absolute	Atmospheric Atmospheric		25 13		2 (short term ²) 1 (short term ²)			
Supply Voltage, Current, and Load Resistance	Voltage Range: 10.8 to 42.4 Vdc at terminals Current Range: 3.0 to 21.8 mA Load Resistance: 0 to 1,440 ohms (as shown in Figure 2)							
Maximum Allowable Working Pressure (MAWP) ⁴ <small>(ST 3000 products are rated to Maximum Allowable Working Pressure. MAWP depends on Approval Agency and transmitter materials of construction.)</small>	STD924, STD930, STD974 = 4,500psi, 310 bar ³ Static Pressure Limit = Maximum Allowable Working Pressure (MAWP) = Overpressure Limit							

¹ For CTFE fill fluid, the rating is -15 to 110°C (5 to 230°F)

² Short term equals 2 hours at 70°C (158°F)

³ MAWP applies for temperature range -40 to 125°C. However, Static Pressure Limit is de-rated to 3,000 psi from -26°C to -40°C. Use of graphite o-rings de-rates transmitter to 3,625 psi. Use of adaptor with graphite o-rings de-rates transmitter to 3,000 psi.

⁴ Consult factory for MAWP of ST 3000 transmitters with CSA approval.

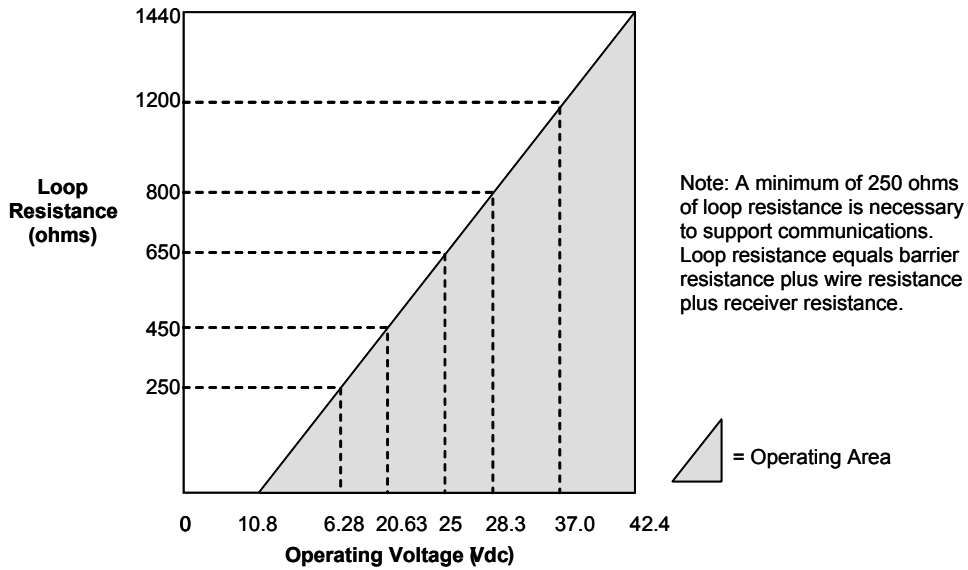


Figure 2 - Supply voltage and loop resistance chart

Performance Under Rated Conditions* - Model STD924 (0 to 400 inH₂O/1,000 mbar)

Parameter	Description
Upper Range Limit inH ₂ O mbar	400 (39.2°F/4°C is standard reference temperature for inH ₂ O range.) 1,000
Minimum Span inH ₂ O mbar	4 Note: Recommended minimum span in square root mode is 20 inH ₂ O (50 mbar). 10
Turndown Ratio	100 to 1
Zero Elevation and Suppression	-5 to ±100% URL.
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) <ul style="list-style-type: none"> • Accuracy includes residual error after averaging successive readings. • For FOUNDATION™ Fieldbus use Digital Mode specifications. • For HART® use Analog Mode specifications. 	In Analog Mode: ±0.075% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (25 inH ₂ O), accuracy equals: $\pm \left[0.025 + 0.05 \left(\frac{25 \text{ inH}_2\text{O}}{\text{span inH}_2\text{O}} \right) \right] \text{ or } \pm \left[0.025 + 0.05 \left(\frac{62 \text{ mbar}}{\text{span mbar}} \right) \right] \text{ in \% of span}$ In Digital Mode: ±0.0625% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (25 inH ₂ O), accuracy equals: $\pm \left[0.125 + 0.05 \left(\frac{25 \text{ inH}_2\text{O}}{\text{span inH}_2\text{O}} \right) \right] \text{ or } \pm \left[0.0125 + 0.05 \left(\frac{62 \text{ mbar}}{\text{span mbar}} \right) \right] \text{ in \% of span}$
Zero Temperature Effect per 28°C (50°F)	In Analog Mode: ±0.1625% of span. For URV below reference point (50 inH ₂ O), effect equals: $\pm \left[0.0125 + 0.15 \left(\frac{50 \text{ inH}_2\text{O}}{\text{span inH}_2\text{O}} \right) \right] \text{ or } \pm \left[0.0125 + 0.15 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \right] \text{ in \% of span}$ In Digital Mode: ±0.15% of span. For URV below reference point (50 inH ₂ O), effect equals: $\pm 0.15 \left(\frac{50 \text{ inH}_2\text{O}}{\text{span inH}_2\text{O}} \right) \text{ or } \pm 0.15 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \text{ in \% of span}$
Combined Zero and Span Temperature Effect per 28°C (50°F)	In Analog Mode: ±0.25% of span. For URV below reference point (50 inH ₂ O), effect equals: $\pm \left[0.10 + 0.15 \left(\frac{50 \text{ inH}_2\text{O}}{\text{span inH}_2\text{O}} \right) \right] \text{ or } \pm \left[0.10 + 0.15 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \right] \text{ in \% of span}$ In Digital Mode: ±0.225% of span. For URV below reference point (50 inH ₂ O), effect equals: $\pm \left[0.075 + 0.15 \left(\frac{50 \text{ inH}_2\text{O}}{\text{span inH}_2\text{O}} \right) \right] \text{ or } \pm \left[0.075 + 0.15 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \right] \text{ in \% of span}$
Zero Static Pressure Effect per 1,000 psi (70 bar)	±0.1625% of span. For URV below reference point (50 inH ₂ O), effect equals: $\pm \left[0.0125 + 0.15 \left(\frac{50 \text{ inH}_2\text{O}}{\text{span inH}_2\text{O}} \right) \right] \text{ or } \pm \left[0.0125 + 0.15 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \right] \text{ in \% of span}$
Combined Zero and Span Static Pressure Effect per 1,000 psi (70 bar)	±0.30% of span. For URV below reference point (50 inH ₂ O), effect equals: $\pm \left[0.15 + 0.15 \left(\frac{50 \text{ inH}_2\text{O}}{\text{span inH}_2\text{O}} \right) \right] \text{ or } \pm \left[0.15 + 0.15 \left(\frac{125 \text{ mbar}}{\text{span mbar}} \right) \right] \text{ in \% of span}$
Stability	±0.015% of URL per year

* Performance specifications are based on reference conditions of 25°C (77°F), zero (0) static pressure, 10 to 55% RH, and 316 Stainless Steel barrier diaphragm.

Performance Under Rated Conditions* - Model STD930 (0 to 100 psi/7,000 mbar)

Parameter	Description
Upper Range Limit psi bar	100 7
Minimum Span psi bar	1 0.07
Turndown Ratio	100 to 1
Zero Elevation and Suppression	No limit except minimum span within $\pm 100\%$ URL.
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability).	<p>In Analog Mode: $\pm 0.075\%$ of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (25 inH₂O), accuracy equals: $\pm \left[0.025 + 0.05 \left(\frac{20 \text{ psi}}{\text{span psi}} \right) \right]$ or $\pm \left[0.025 + 0.05 \left(\frac{1.4 \text{ bar}}{\text{span bar}} \right) \right]$ in % of span</p> <p>In Digital Mode: $\pm 0.0625\%$ of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (20 psi), accuracy equals: $\pm \left[0.0125 + 0.05 \left(\frac{20 \text{ psi}}{\text{span psi}} \right) \right]$ or $\pm \left[0.0125 + 0.05 \left(\frac{1.4 \text{ bar}}{\text{span bar}} \right) \right]$ in % of span</p>
Zero Temperature Effect per 28°C (50°F)	<p>In Analog Mode: $\pm 0.1625\%$ of span. For URV below reference point (30 psi), effect equals: $\pm \left[0.0125 + 0.15 \left(\frac{30 \text{ psi}}{\text{span psi}} \right) \right]$ or $\pm \left[0.0125 + 0.15 \left(\frac{2 \text{ bar}}{\text{span bar}} \right) \right]$ in % of span</p> <p>In Digital Mode: $\pm 0.15\%$ of span. For URV below reference point (30 psi), effect equals: $\pm 0.15 \left(\frac{30 \text{ psi}}{\text{span psi}} \right)$ or $\pm 0.15 \left(\frac{2 \text{ bar}}{\text{span bar}} \right)$ in % of span</p>
Combined Zero and Span Temperature Effect per 28°C (50°F)	<p>In Analog Mode: $\pm 0.25\%$ of span. For URV below reference point (30 psi), effect equals: $\pm \left[0.10 + 0.15 \left(\frac{30 \text{ psi}}{\text{span psi}} \right) \right]$ or $\pm \left[0.10 + 0.15 \left(\frac{2 \text{ bar}}{\text{span bar}} \right) \right]$ in % of span</p> <p>In Digital Mode: $\pm 0.225\%$ of span. For URV below reference point (30 psi), effect equals: $\pm \left[0.075 + 0.15 \left(\frac{30 \text{ psi}}{\text{span psi}} \right) \right]$ or $\pm \left[0.075 + 0.15 \left(\frac{2 \text{ bar}}{\text{span bar}} \right) \right]$ in % of span</p>
Zero Static Pressure Effect per 1000 psi (70 bar)	<p>$\pm 0.1625\%$ of span. For URV below reference point (30 psi), effect equals: $\pm \left[0.0125 + 0.15 \left(\frac{30 \text{ psi}}{\text{span psi}} \right) \right]$ or $\pm \left[0.0125 + 0.15 \left(\frac{2 \text{ bar}}{\text{span bar}} \right) \right]$ in % of span</p>
Combined Zero and Span Static Pressure Effect per 1000 psi (70 bar)	<p>$\pm 0.30\%$ of span. For URV below reference point (30 psi), effect equals: $\pm \left[0.15 + 0.15 \left(\frac{30 \text{ psi}}{\text{span psi}} \right) \right]$ or $\pm \left[0.15 + 0.15 \left(\frac{2 \text{ bar}}{\text{span bar}} \right) \right]$ in % of span</p>
Stability	$\pm 0.04\%$ of URL per year

* Performance specifications are based on reference conditions of 25°C (77°F), zero (0) static pressure, 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Performance Under Rated Conditions* - Model STD974 (0 to 3,000 psi/210 bar)

Parameter	Description
Upper Range Limit psi bar	3,000 210
Minimum Span psi bar	30 2.1
Turndown Ratio	100 to 1
Zero Elevation and Suppression	-0.6 and +100% URL.
Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) <ul style="list-style-type: none"> Accuracy includes residual error after averaging successive readings. For FOUNDATION™ Fieldbus use Digital Mode specifications. For HART® use Analog Mode specifications. 	In Analog Mode: ±0.2% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (300 psi), accuracy equals: $\pm \left[0.05 + 0.15 \left(\frac{300 \text{ psi}}{\text{span psi}} \right) \right] \text{ or } \pm \left[0.05 + 0.15 \left(\frac{21 \text{ bar}}{\text{span bar}} \right) \right] \text{ in \% of span}$ In Digital Mode: ±0.175% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (300 psi), accuracy equals: $\pm \left[0.025 + 0.15 \left(\frac{300 \text{ psi}}{\text{span psi}} \right) \right] \text{ or } \pm \left[0.025 + 0.15 \left(\frac{21 \text{ bar}}{\text{span bar}} \right) \right] \text{ in \% of span}$
Zero Temperature Effect per 28°C (50°F)	In Analog Mode: ±0.2125% of span. For URV below reference point (500 psi), effect equals: $\pm \left[0.0125 + 0.20 \left(\frac{500 \text{ psi}}{\text{span psi}} \right) \right] \text{ or } \pm \left[0.0125 + 0.20 \left(\frac{35 \text{ bar}}{\text{span bar}} \right) \right] \text{ in \% of span}$ In Digital Mode: ±0.20% of span. For URV below reference point (500 psi), effect equals: $\pm 0.20 \left(\frac{500 \text{ psi}}{\text{span psi}} \right) \text{ or } \pm 0.20 \left(\frac{35 \text{ bar}}{\text{span bar}} \right) \text{ in \% of span}$
Combined Zero and Span Temperature Effect per 28°C (50°F)	In Analog Mode: ±0.325% of span. For URV below reference point (500 psi), effect equals: $\pm \left[0.0125 + 0.20 \left(\frac{500 \text{ psi}}{\text{span psi}} \right) \right] \text{ or } \pm \left[0.0125 + 0.20 \left(\frac{35 \text{ bar}}{\text{span bar}} \right) \right] \text{ in \% of span}$ In Digital Mode: ±0.30% of span. For URV below reference point (500 psi), effect equals: $\pm \left[0.10 + 0.20 \left(\frac{500 \text{ psi}}{\text{span psi}} \right) \right] \text{ or } \pm \left[0.10 + 0.20 \left(\frac{35 \text{ bar}}{\text{span bar}} \right) \right] \text{ in \% of span}$
Zero Static Pressure Effect per 1,000 psi (70 bar)	±0.1625% of span. For URV below reference point (500 psi), effect equals: $\pm \left[0.0125 + 0.15 \left(\frac{500 \text{ psi}}{\text{span psi}} \right) \right] \text{ or } \pm \left[0.0125 + 0.15 \left(\frac{35 \text{ bar}}{\text{span bar}} \right) \right]$
Combined Zero and Span Static Pressure Effect per 1,000 psi (70 bar)	±0.30% of span. For URV below reference point (500 psi), effect equals: $\pm \left[0.15 + 0.15 \left(\frac{500 \text{ psi}}{\text{span psi}} \right) \right] \text{ or } \pm \left[0.15 + 0.15 \left(\frac{35 \text{ bar}}{\text{span bar}} \right) \right] \text{ in \% of span}$
Stability	±0.03% of URL per year

* Performance specifications are based on reference conditions of 25°C (77°F), zero (0) static pressure, 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Performance Under Rated Conditions - General for all Models

Parameter	Description
Output (two-wire)	Analog 4 to 20 mA or DE digital communications mode. Options available for FOUNDATION™ Fieldbus and HART® protocol.
Supply Voltage Effect	0.005% span per volt.
Damping Time Constant	Adjustable from 0 to 32 seconds digital damping.
CE Conformity (Europe)	89/336/EEC, Electromagnetic Compatibility (EMC) Directive.
NAMUR NE 43 Compliance Option	Transmitter failure information is generated when the measuring information is invalid or no longer present. Failure information is transmitted as a current signal but outside the normal 4-20 mA measurement signal level. Transmitter failure values are: ≤ 3.6 mA and ≥ 21.0 mA. The normal signal range is ≥ 3.8 mA and ≤ 20.5 mA.
SIL 2/3 Compliance	SIL certified to IEC 61508 for non-redundant use in SIL 2 related Safety Systems (single use) and for redundant (multiple) use in SIL 3 Safety Systems through TÜV Nord Sys Tec GmbH & Co. KG under the following standards: IEC61508-1: 1998; IEC 61508-2: 2000; IEC61508-3: 1998.
Lightning Protection Option (Code "LP")	Leakage Current: 10 microamps max. @ 42.4 VDC, 93°C Impulse Rating: 10/20 μ sec. 5,000 Amps (50 strikes) 10,000 Amps (20 strikes) (rise/decay) 10/1,000 μ sec. 250 Amps (1,000 strikes) 500 Amps (400 strikes)

Physical and Approval Bodies

Parameter	Description
Barrier Diaphragms Material STD924, STD930, STD974	316L SS, Hastelloy® C-276 ² , Monel® 400 ³ , Tantalum, Gold plated 316LSS, Gold plated Hastelloy® C-276 ² , Gold plated Monel® 400 ³
Process Head Material STD924, STD930, STD974	316 SS ⁴ , Carbon Steel (zinc-plated) ⁵ , Monel® 400 ⁷ , Hastelloy® C-276 ⁶
Head Gaskets	Glass filled PTFE standard. Viton® and graphite optional.
Meter Body Bolting	Carbon Steel (Zinc plated) ⁵ standard. Options include 316 SS, NACE A286 SS bolts with NACE 304 SS nuts, and B7M.
Optional Adapter Flange and Bolts	Adapter Flange materials include 316 SS ⁴ , Hastelloy® C-276 ⁶ and Monel® 400 ⁷ . Options for bolting include carbon steel, 316SS ⁴ , NACE A286SS and B7M. Standard adapter flange gasket material is glass filled PTFE. Viton® and graphite optional.
Mounting Bracket	Carbon Steel (Zinc-plated) or Stainless Steel angle bracket or Carbon Steel flat bracket available (standard options).
Fill Fluid	Silicone DC® 200 oil or CTFE (Chlorotrifluoroethylene)
Electronic Housing	Epoxy-Polyester hybrid paint. Low Copper-Aluminum. Meets NEMA 4X (watertight) and NEMA 7 (explosionproof). Stainless steel optional.
Process Connections	1/4-inch NPT; 1/2-inch NPT with adapter. Process heads meet DIN 19,213 requirements.
Wiring	Accepts up to 16 AWG (1.5 mm diameter).
Mounting	Can be mounted in virtually any position using the standard mounting bracket. Bracket is designed to mount on 2-inch (50 mm) vertical or horizontal pipe. See Figure 3.
Dimensions	See Figure 4.
Net Weight	Approximately 9 pounds (4.1 Kg).

² Hastelloy® C-276 or UNS N10276

³ Monel® 400 or UNS N04400

⁴ Supplied as 316 SS or as Grade CF8M, the casting equivalent of 316 SS.

⁵ Carbon Steel heads are zinc-plated and not recommended for water service due to hydrogen migration. For that service, use 316 stainless steel wetted Process Heads.

⁶ Hastelloy® C-276 or UNS N10276. Supplied as indicated or as Grade CW12MW, the casting equivalent of Hastelloy® C-276

⁷ Monel® 400 or UNS N04400. Supplied as indicated or as Grade M30C, the casting equivalent of Monel® 400

Note: Pressure transmitters that are part of safety equipment for the protection of piping (systems) or vessel(s) from exceeding allowable pressure limits, (equipment with safety functions in accordance with Pressure Equipment Directive 97/23/EC article 1, 2.1.3), require separate examination

Mounting

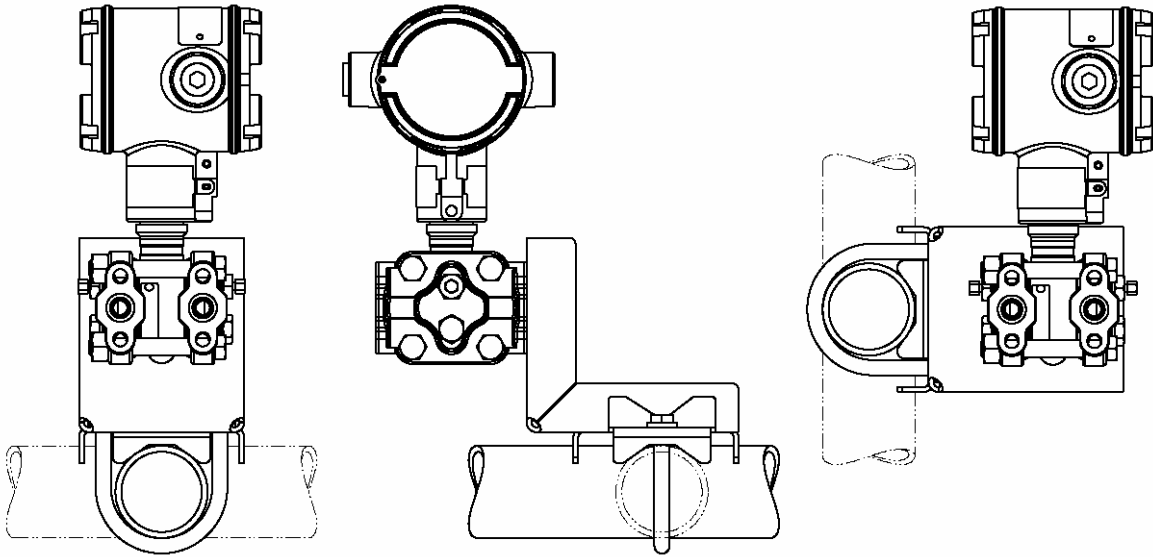


Figure 3 – Examples of typical mounting positions for Models STD924, STD930 and STD974

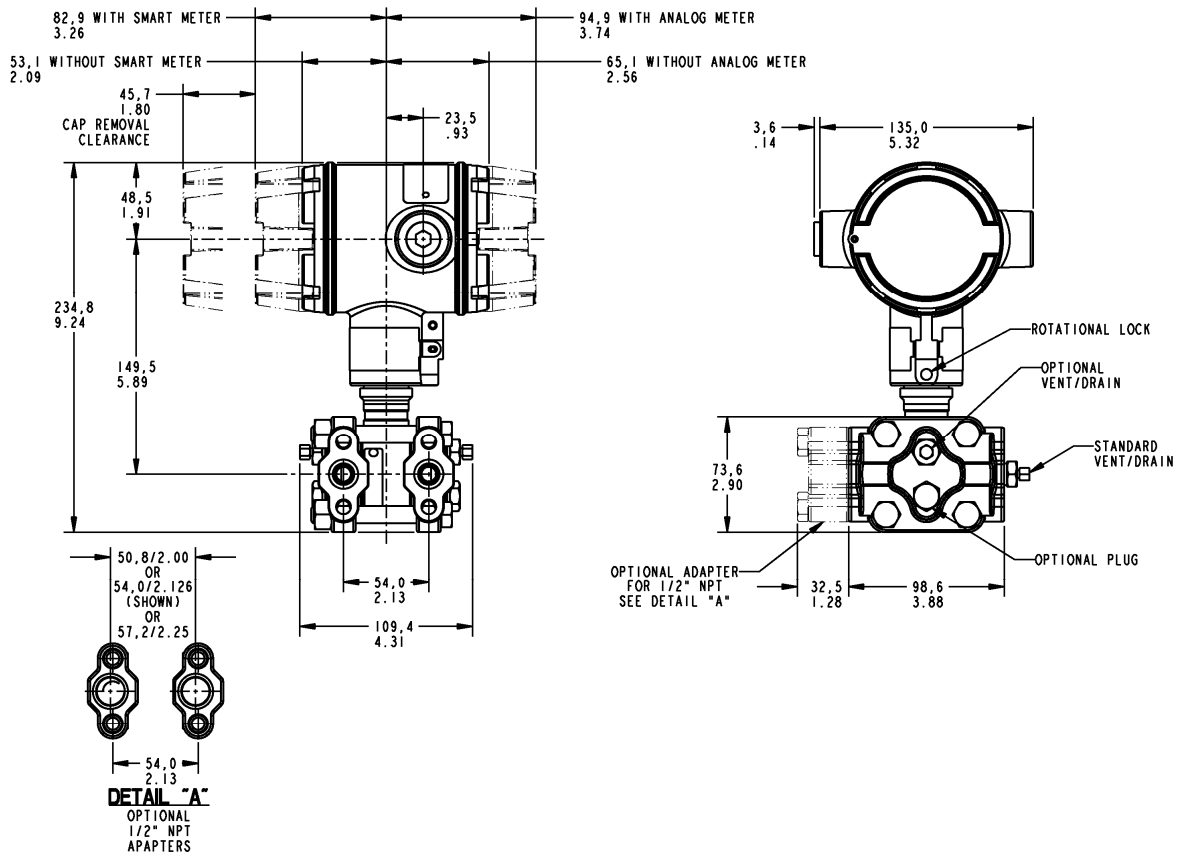


Figure 4 – Typical mounting dimensions of STD924, STD930 and STD974 for reference

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