Honeywell

ST 3000 Smart Transmitter Series 900 Absolute Pressure Models

 STA922
 0 to 780 mmHgA

 STA940
 0 to 500 psia

0 to 1,040 mbarA 0 to 35 barA

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 Absolute Pressure Transmitters continue to bring proven "smart" technology to a wide spectrum of pressure measurement applications. Honeywell absolute pressure transmitters are used in applications in which high accuracy in the vacuum range of pressure is needed. Typical applications include low-pressure measurement in vacuum distillation columns, where energy savings are directly proportional to the vacuum in the column. Honeywell transmitters can be used in a wide spectrum of hazardous environments in perfect safety to provide proven, repeatable pressure measurements.

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



Figure 1—Series 900 Absolute 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.

"Honeywell transmitters operating in the digital mode using Honeywell's Digitally Enhanced (DE) protocol make diagnostics available right at the control system's human interface. Equally important, transmitter status information is continuously displayed to alert the operator immediately of a fault condition. Because the process variable (PV) status transmission precedes the PV value, we are guaranteed that a bad PV is not used in a control algorithm. In addition, bi-directional communication provides for remote transmitter configuration directly from the human interface, enabling management of the complete loop."

> Maureen Atchison, DuPont Site Electrical & Instrumentation Leader

34-ST-03-66 10/2002

Specification and Model Selection Guide

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 between the operator and the transmitter through our Smart Field Configurator (SFC). You can connect the SFC anywhere that you can access the transmitter signal lines.

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 downline during commissioning.

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.

Specifications

Operating Conditions – All Models

Parameter	eter Reference Rated Condition Operative Condition (at zero static)		ive Limits Transportation Storage							
	°C	°F	°C	°F	°C	°F	°C	°F		
Ambient Temperature	25±1	77±2	-25 to 70	-13 to 158	-40 to 85	-40 to 185	-55 to 125	-67 to 257		
Meter Body Temperature STA922 STA940	25±1 25±1	77±2 77±2	See F	igure 2 -13 to 158	See Fig -40 to 80	gure 2 -40 to 176	-55 to 125 -55 to 125			
Humidity %RH	-	o 55	0 to 100				0 to -		0 to	
Overpressure STA922 mmHgA mbarA		0 Full vacuum 0 Full vacuum			Full vacuur Full vacuur					
STA940, psia bar A		0 750 0 52			750 52					
Vacuum Region - Minimum Pressure STA922 STA940	See Figure 2.			n exposure	(2 hours					
Supply Voltage, Current, and Load Resistance Load Resistance			3.0 to 21.8 n	nA		3)				

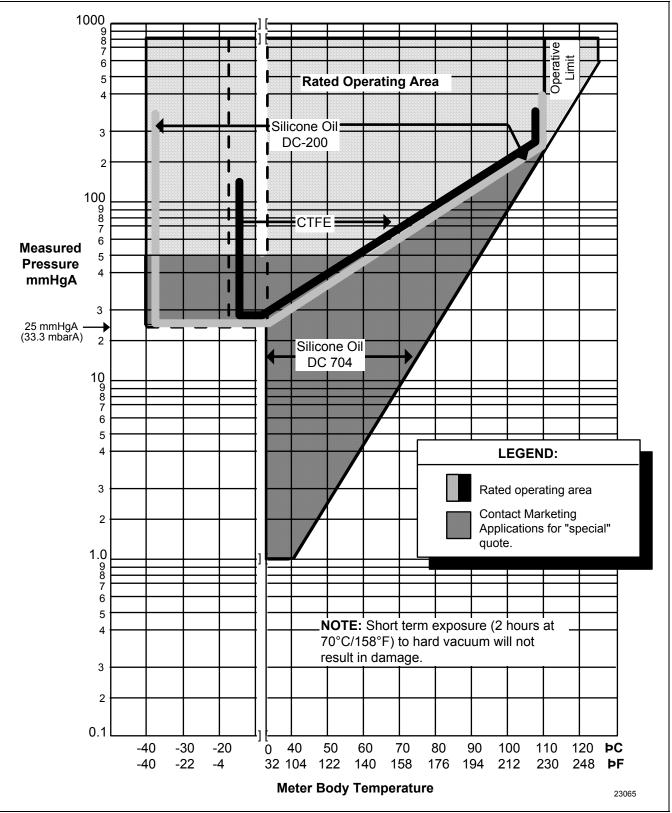


Figure 2—Measured pressure versus meter body temperature chart for model STA922

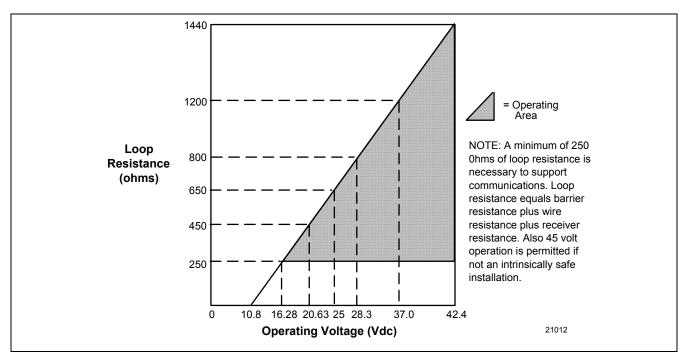


Figure 3—Supply voltage and loop resistance chart

Performance Under Rated Conditions* - Models STA922 (0 to 780 mmHgA/1040 mbarA)

Parameter	Description				
Upper Range Limit mmHgA mbarA	780 (0°C/32°F is standard reference temperature for mmHg range.) 1040				
Minimum Span mmHgA mbarA	50 67				
Turndown Ratio	15 to 1				
Zero Suppression	No limit except minimum span within 0 (zero) to +100% URL.				
 Accuracy (Reference – Includes combined effects of linearity, hysteresis, and repeatability) Accuracy includes residual error after averaging successive readings. For FOUNDATION Fieldbus use Digital Mode specifications. For HART use Analog Mode specifications. 	In Analog Mode: $\pm 0.10\%$ of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (90 mmHgA), accuracy equals: $\pm 0.05 + 0.05 \left(\frac{90 \text{ mmHgA}}{\text{span mmHgA}}\right)$ or $\pm 0.05 + 0.05 \left(\frac{120 \text{ mbarA}}{\text{span mbarA}}\right)$ in % span In Digital Mode: $\pm 0.075\%$ of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (90 mmHgA), accuracy equals: $\pm 0.025 + 0.05 \left(\frac{90 \text{ mmHgA}}{\text{span mmHgA}}\right)$ or $\pm 0.025 + 0.05 \left(\frac{120 \text{ mbarA}}{\text{span mbarA}}\right)$ in % span				
Zero Temperature Effect per 28°C (50°F)	In Analog Mode: $\pm 0.1625\%$ of span. For URV below reference point (180 mmHgA), effect equals: $\pm 0.0125 + 0.15 \left(\frac{180 \text{ mmHgA}}{\text{span mmHgA}}\right)$ or $\pm 0.0125 + 0.15 \left(\frac{240 \text{ mbarA}}{\text{span mbarA}}\right)$ in % span In Digital Mode: $\pm 0.15\%$ of span. For URV below reference point (180 mmHgA), effect equals: $\pm 0.15 \left(\frac{180 \text{ mmHgA}}{\text{span mmHgA}}\right)$ or $\pm 0.15 \left(\frac{240 \text{ mbarA}}{\text{span mbarA}}\right)$ in % span				

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

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Performance Under Rated Conditions - Models STA922 (0 to 780 mmHgA/1040 mbarA), Continued

Parameter	Description
Combined Zero and Span Temperature Effect per 28°C (50°F)	In Analog Mode: $\pm 0.25\%$ of span. For URV below reference point (180 mmHgA), effect equals: $\pm 0.10 + 0.15 \left(\frac{180 \text{ mmHgA}}{\text{span mmHgA}}\right)$ or $\pm 0.10 + 0.15 \left(\frac{240 \text{ mbarA}}{\text{span mbarA}}\right)$ in % span In Digital Mode: $\pm 0.225\%$ of span. For URV below reference point (180 mmHgA), effect equals: $\pm 0.075 + 0.15 \left(\frac{180 \text{ mmHgA}}{\text{span mmHgA}}\right)$ or $\pm 0.075 + 0.15 \left(\frac{240 \text{ mbarA}}{\text{span mbarA}}\right)$ in % span

Performance Under Rated Conditions* - Models STA940 (0 to 500 psia/35 barA)

Parameter		Description					
Upper Range Limit psia barA		500 35					
Minimum Span	psia barA	20 1.4					
Turndown Ratio		25 to 1					
Zero Suppression		No limit except minimum span within 0 (zero) to +100% URL.					
Accuracy (Reference – In combined effects of lineari	ty,	In Analog Mode: ±0.10% of calibrated span or upper range value (URV), whichever is greater, terminal based.					
hysteresis, and repeatabili	ty)	For URV below reference point (20 psia), accuracy equals:					
 Accuracy includes resid after averaging success 		$\pm 0.05 + 0.05 \left(\frac{20 \text{ psia}}{\text{span psia}}\right) \text{ or } \pm 0.05 + 0.05 \left(\frac{1.4 \text{ barA}}{\text{span barA}}\right) \text{ in \% span}$					
readings. For FOUNDATION Fieldbu 		In Digital Mode: ±0.075% of calibrated span or upper range value (URV), whichever is greater, terminal based.					
Digital Mode specification HART use Analog Mode		For URV below reference point (20 psia), accuracy equals:					
specifications.		$\pm 0.025 \pm 0.05 \left(\frac{20 \text{ psia}}{\text{span psia}}\right) \text{ or } \pm 0.025 \pm 0.05 \left(\frac{1.4 \text{ barA}}{\text{span barA}}\right) \text{ in \% span}$					
Zero Temperature Effect	per	In Analog Mode: ±0.1625% of span.					
28°C (50°F)		For URV below reference point (50 psia), effect equals:					
		$\pm 0.0125 + 0.15 \left(\frac{50 \text{ psia}}{\text{span psia}}\right) \text{ or } \pm 0.0125 + 0.15 \left(\frac{3.5 \text{ barA}}{\text{span barA}}\right) \text{ in \% span}$					
		In Digital Mode: ±0.15% of span.					
		For URV below reference point (50 psia), effect equals:					
		$\pm 0.15 \left(\frac{50 \text{ psia}}{\text{span psia}} \right)$ or $\pm 0.15 \left(\frac{3.5 \text{ barA}}{\text{span barA}} \right)$ in % span					
Combined Zero and Spa		In Analog Mode: ±0.25% of span.					
Temperature Effect per 2 (50°F)	28°C	For URV below reference point (50 psia), effect equals:					
(50 F)		$\pm 0.10 + 0.15 \left(\frac{50 \text{ psia}}{\text{span psia}}\right) \text{ or } \pm 0.10 + 0.15 \left(\frac{3.5 \text{ barA}}{\text{span barA}}\right) \text{ in \% span}$					
		In Digital Mode: ±0.225% of span.					
		For URV below reference point (50 psia), effect equals:					
		$\pm 0.075 \pm 0.15 \left(\frac{50 \text{ psia}}{\text{span psia}}\right)$ or $\pm 0.075 \pm 0.15 \left(\frac{3.5 \text{ barA}}{\text{span barA}}\right)$ in % span					

* Performance specifications are based on reference conditions of 25°C (77°F), 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.				
Lightning Protection Option	Leakage Current: 10 microamps max. @ 42.4 VDC, 93°C				
(Code "LP")	Impulse Rating: 10/20 μ sec. 5,000 Amps (50 strikes) 10,000 Amps (20 strikes) (rise/decay) 10/1000 μ sec. 250 Amps (1000 strikes) 500 Amps (400 strikes)				

Physical and Approval Bodies

Parameter	Description			
Barrier Diaphragms Material	316L SS, Hastelloy C-276			
Process Head Material	316 SS, Carbon Steel (zinc-plated), Hastelloy C-276			
Head Gaskets	Viton is standard. Teflon is optional but not recommended for leak-proof service under full vacuum.			
Meter Body Bolting	Carbon Steel (zinc-plated, standard) or A286 SS (NACE) bolts and 302/304 SS (NACE) nuts for heads.			
Mounting Bracket	Carbon Steel (zinc-plated) or Stainless Steel angle bracket or Carbon Steel flat bracket available.			
Fill Fluid	Silicone DC 200 oil or CTFE (Chlorotrifluoroethylene) Note that DC 704 is available – Please contact Product Marketing.			
Electronic Housing	Epoxy-Polyester hybrid paint. Low Copper-Aluminum. Meets NEMA 4X (watertight) and NEMA 7 (explosion proof). Stainless steel optional.			
Process Connections	1/2-inch NPT, DIN			
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 4.			
Dimensions	See Figure 5.			
Net Weight	10 pounds (4.5 Kg)			
Approval Bodies - Hazardous Areas	Approved as explosion proof and intrinsically safe for use in Class I, Division 1, Groups A, B, C, D locations, and nonincendive for Class I, Division 2, Groups A, B, C, D locations. Approved EEx ia IIC T4, T5, T6 and EEx d IIC T5, T6 per ATEX standards. See attached Model Selection Guide for options.			
Pressure Equipment Directive (97/23/EC)	The ST 3000 pressure transmitters listed in this Specification have no pressurized internal volume or have a pressurized internal volume rated less than 1,000 bar (14,500 psig) and/or have a maximum volume of less than 0.1 liter. Therefore, these transmitters are either; not subject to the essential requirements of the directive 97/23/EC (PED, Annex 1) and shall not have the CE mark, or the manufacturer has the free choice of a module when the CE mark is required for pressures > 200 bar (2,900 psig).			

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.

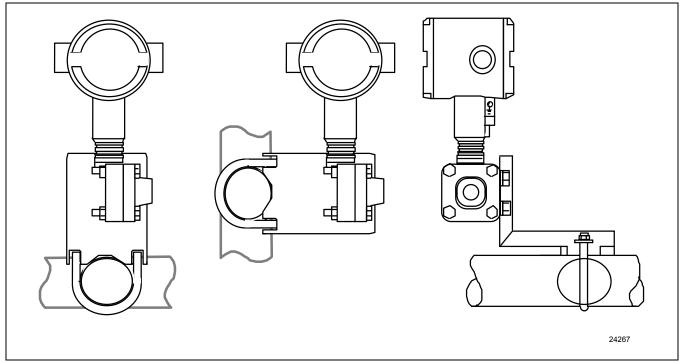


Figure 4—Examples of typical mounting positions

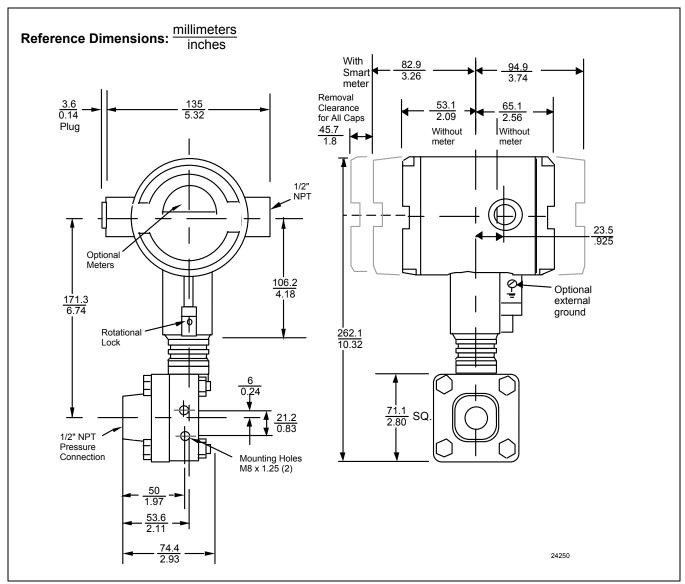


Figure 5—Typical mounting dimensions for reference

Options

Mounting Bracket

The angle mounting bracket is available in either zinc-plated carbon steel or stainless steel and is suitable for horizontal or vertical mounting on a two inch (50 millimeter) pipe, as well as wall mounting. An optional flat mounting bracket is also available in carbon steel for two inch (50 millimeter) pipe mounting.

Indicating Meter (ME and SM Options)

Two integral meter options are available. An analog meter (option ME) is available with a 0 to 100% linear scale. The Smart Meter (option SM) provides an LCD display for both analog and digital output and can be configured to display pressure in pre-selected engineering units.

Lightning Protection (Option LP)

A terminal block is available with circuitry that protects the transmitter from transient surges induced by nearby lightning strikes.

HART Protocol Compatibility (Option HC)

An optional electronics module is available for the ST 3000 that provides HART Protocol compatibility. Transmitters with the HART Option are compatible with the AMS System. (Contact your AMS Supplier if an upgrade is required.)

Indicator Configuration (Option CI)

Provides custom configuration of Smart Meters.

Tagging (Option TG)

Up to 30 characters can be added on the stainless steel nameplate mounted on the transmitter's electronics housing at no extra cost. Note that a separate nameplate on the meter body contains the serial number and body-related data. A stainless steel wired on tag with additional data of up to 4 lines of 28 characters is also available. The number of characters for tagging includes spaces.

Transmitter Configuration (Option TC)

The factory can configure the transmitter linear/square root extraction, damping time, LRV, URV and mode (analog/digital) and enter an ID tag of up to eight characters and scratchpad information as specified.

Custom Calibration and ID in Memory (Option CC)

The factory can calibrate any range within the scope of the transmitter's range and enter an ID tag of up to eight characters in the transmitter's memory.

FOUNDATION Fieldbus (Option FF)

Equips transmitter with FF protocol for use in 31.25 kbit/s FF networks. See document 34-ST-03-72 for additional information on ST 3000 Fieldbus transmitters.

Ordering Information

Contact your nearest Honeywell sales office, or

In the U.S.:

Honeywell Industrial Automation & Control 16404 North Black Canyon Hwy. Phoenix, AZ 85053 1-800-288-7491

In Canada:

The Honeywell Centre 155 Gordon Baker Rd. North York, Ontario M2H 3N7 1-800-461-0013

In Latin America: Honeywell Inc. 480 Sawgrass Corporate Parkway, Suite 200 Sunrise, FL 33325 (954) 845-2600

In Europe and Africa: Honeywell S. A. Avenue du Bourget 1 1140 Brussels, Belgium

In Eastern Europe: Honeywell Praha, s.r.o. Budejovicka 1 140 21 Prague 4, Czech Republic

In the Middle East: Honeywell Middle East Ltd. Khalifa Street, Sheikh Faisal Building Abu Dhabi, U. A. E.

In Asia:

Honeywell Asia Pacific Inc. Honeywell Building, 17 Changi Business Park Central 1 Singapore 486073 Republic of Singapore

In the Pacific:

Honeywell Pty Ltd. 5 Thomas Holt Drive North Ryde NSW Australia 2113 (61 2) 9353 7000

In Japan:

Honeywell K.K. 14-6 Shibaura 1-chrome Minato-ku, Tokyo, Japan 105-0023

Or, visit Honeywell on the World Wide Web at: http://www.honeywell.com

Specifications are subject to change without notice.

(Note that specifications may differ slightly for transmitters manufactured before October 30, 1995.)

Model Selection Guide (34-ST-16-26)

Instructions

- Select the desired Key Number. The arrow to the right marks the selection available.
- Make one selection from each table, I and II, using the column below the proper arrow.
 Select as many Table III options as desired (if no options or approvals are desired, specify 9X).
- A (•) denotes unrestricted availability. A letter denotes restricted availability. Restrictions follow Table IV.

<u>Key</u> Number	I	Ш	III (Optional)	IV
			- [,] +	XXXX

KEY NUMBER Select			Av	aila	bility
	Span				
Gage	0-20 to 0-500 psi/0-1.4 to 0-35 bar	STG944	\downarrow		
Pressure	0-300 to 0-3000 psi/0-21 to 0-210 bar	STG974	\downarrow		
Absolute	0-50 to 0-780 mmHgA/0-67 to 1040 mbar A.	STA922			
Pressure	0-20 to 0-500 psia/0-1.4 to 0-35 bar abs	STA940		$ \downarrow $	

TABLE I - METER BODY

	Wetted	Vent/Drain	Barrier			
	Process Head ***	Valve **	Diaphragms			
Material	Carbon Steel *	316 St. St.	316 LSS	Α	•	•
of	Carbon Steel *	316 St. St.	Hastelloy C	B	•	•
Construction	316 St. St.	316 St. St.	316 LSS	E	+	•
	316 St. St.	316 St. St.	Hastelloy C	F	•	•
	Hastelloy C	Hastelloy C	Hastelloy C	J	•	•
Fill Fluid	Silicone DC200 *	***		_1_	•	•
	CTFE			_2_	•	•
Process Head	1/4" NPT	1/4" NPT			•	
Configuration	1/2" NPT with Adapter			G	t	
	1/2" NPT			G		•

TABLE II

No Selection

Carbon Steel heads are zinc-plated. Not recommended for water service due to hydrogen migration. Use Stainless Steel heads.

00000

• •

** Vent/Drains are Teflon coated for lubricity.

- *** The standard reference head for the STG9XX is carbon steel (zinc-plated). See Table III for a stainless steel reference (HR) head option.
- **** If STA922 operating below 50mm HgA, see Figure 2 in Specification 34-ST-03-65 and contact Marketing Applications for a "Special" Silicone DC704 quote.

Note: End vent drain valve standard for STG9XX. End vent drain valves are not available on STA9XX.

Model Selection Guide, cont.

	STA9	Availability
	STG9	
		$\downarrow \downarrow$
TABLE III - OPTIONS	Selection	44 22 74 40
None	00	• •
HARI Protocol Compatible Electronics	HC	
FOUNDATION Fieldbus Communications	FF	r r b
Analog Meter (0-100 Even 0-10 Square Root)	ME	
Smart Meter	SM	• • • ^b
Custom Configuration of Smart Meter	CI	m
Local Zero	LZ	x D
Local Zero and Span	ZS	s
Lightning Protection	LP	
Custom Calibration and I.D. in Memory	CC	• •
Transmitter Configuration	TC	• •
Write Protection	WP	• •
A286SS (NACE) Bolts and 302/304SS (NACE) Nuts for Heads	CR	• •
Stainless Steel Customer Wired-On Tag	TG	• •
(4 lines, 28 characters per line, customer supplied information)		
Stainless Steel Customer Wired-On Tag (blank)	ТВ	• •
Adapter Flange - 1/2" NPT St. Steel	S1	с
Adapter Flange - 1/2" NPT Hastelloy-C	T1	с
Modified DIN Process Heads - 316SS	DN	wv
Viton Process Head Gaskets (teflon is standard)	VT	•
Mounting Bracket - Carbon Steel	MB	 • • □
Mounting Bracket - ST. ST.	SB	• • b
Flat Mounting Bracket - Carbon Steel	FB	••
316 ST.ST. Electronics Housing - with M20 Conduit Connections	SH	n n
1/2" NPT to M20 316SS Conduit Adapter (BASEEFA EEx d IIC)	A1	
1/2" NPT to 3/4" NPT 316 SS Conduit Adapter	A2	u u
Stainless Steel Housing with M20 to 1/2" NPT 316 SS Conduit	A3	ii
Adapter (use for FM and CSA Approvals)		
Side Vent/Drain	SV	d
Blind DIN SS Flanges Mounted with NACE Bolts	B1	У
Low Temperature50°C Ambient Limit	LT	z
St. St. Reference Head (Carbon Steel Standard)	HR	•
Clean Transmitter for Oxygen or Chlorine Service with Certificate	0X	h h
Over-Pressure Leak Test with F3392 Certificate	TP	
Calibration Test Report and Certificate of Conformance (F3399)	F1	• • • • • • • • • •
Certificate of Conformance (F3391)	F3	
Certificate of Origin (F0195)	F5	• •
FMEDA (SIL) Certificate	F6	• •
NACE Certificate (F0198)	F7	0
Additional Warranty - 1 year	W1	• •
Additional Warranty - 2 years	W2	• • • b
Additional Warranty - 3 years	W3	
Additional Warranty - 4 years	W4	

Table III continued next page

Model Selection Guide, cont.

				Av	ailab	ility
			STA9 STG9	$\overline{}$	$\overline{\mathbf{v}}$	
TABLE III -	OPTIONS (continued)	Selection		22 40	
Approval Body	Approval Type	Location or Classification				
No hazard	ous location approvals		9X	•	•	
	Explosion Proof	Class I, Div. 1, Groups A,B,C,D				
Factory	Dust Ignition Proof	Class II, III Div. 1, Groups E,F,G				
Mutual	Non-Incendive	Class I, Div. 2, Groups A,B,C,D	1C	+	+	
	Intrinsically Safe	Class I, II, III, Div. 1, Groups				
		A,B,C,D,E,F,G				
	Explosion Proof	Class I, Div. 1, Groups B,C,D				
CSA	Dust Ignition Proof	Class II, III, Div. 1, Groups E,F,G	2J	+	•	
	Intrinsically Safe	Class I, II, III, Div. 1, Groups				
	-	A,B,C,D,E,F,G				
SA	Intrinsically Safe	Ex ia IIC T4	4G	•	•	
(Australia)	Non-Sparking	Ex n IIC T6 (T4 with SM option)				
	Intrinsically Saft, Zone	(Ex) II 1 G EEx ia IIC T4, T5,T6	3S	•	•	
	0/1					
	-	(€x)II 2 G EEx d IIC T5, T6,	3D	•		
	Flameprool, Zone 1		30	1	*	
ATEX*		Enclosure IP 66/67				
	Non-Sparking, Zone 2	🖅 🛙 🗴 🛛 EEx nA, IIC T6	3N	•	•	
		(Honeywell). Enclosure IP 66/67				
	*See ATEX installation re	quirements in the ST 3000 User's Manual				
		Equipment Directive (PED)				
		insmitters listed in this Model Selection Gui	ido aro in conformity			
		ments of the PED. A formal statement from	,			
	•		•			
		nerica, Inc., a division of TÜV Süddeutschla	, ,			
	regarding the Pressure E	quipment Directive, is available upon reque	St			
TABLE IV						
actory Ide	entification		XXXX	•	•	

Model Selection Guide, cont.

RESTRICTIONS

Restriction		Available Only With	Not Available With	
Letter	Table	Selection	Table	Selection
а		Approval Bo	dy Pending	
b		Select only one opti	on from this g	group
С	I	G		
d			III	DN, B1
е			III	4G
h	I	_2_		
i	III	1C or 2J		
m	III	SM		
n				1C, 2J
0	III	CR or B1		
r				TC, ME, 4G, 3S
S				FF, ME
t		Select adapter from Table III	S1, T1	
u	III	1C, 2J		
v	I	E_G, F_G		
w	I	E _ A, F _ A		SV
х	III	FF, SM		
у	I	E _ A, F _ A		SV
-	Ш	DN		
z				STG974

Note: See ST-83 for Published Specials with pricing.

See ST-89 and User's Manual for part numbers.

See ST-OE-9 for OMS Order Entry Information including TC, manuals, certificates, drawings and SPINS.

- See ST-OD-1 for tagging, ID, Transmitter Configuration (TC) and calibration including factory default values.
- To request a quotation for a non-published "special", fax RFQ to Marketing Applications.
- See ST-OE-9 for OMS Order Entry Information including TC, manuals,

ST 3000[®] is a registered trademark of Honeywell International Inc. HART^{*} is a trademark of the Hart Communication Foundation. FOUNDATION[™] is a trademark of the Fieldbus Foundation.



Industrial Measurement and Control Honeywell International Inc. 16404 North Black Canyon Highway Phoenix, Arizona 85053

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