

## ST 3000 Series 900 Smart Transmitter Dual Head Gage Pressure (GP) and Single Head Absolute Pressure (AP) Model Selection Guide With Price Data

Model Selection Guide  
34-ST-16U-26 Issue 29

Honeywell Confidential & Proprietary

### 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.

Key Number      I      II      III (Optional)      IV  
----- - ----- - ----- - ----- + XXXX

KEY NUMBER		Selection	Availability	
Span				
Gage	0-20 to 0-500 psi/0-1.4 to 0-35 bar	STG944	↓	
Pressure	0-300 to 0-3000 psi/0-21 to 0-210 bar	STG974	↓	
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		↓

TABLE I - METER BODY

	Wetted Process Head ***	Vent/Drain Valve **	Barrier Diaphragms			
Material of Construction	Carbon Steel *	316 St. St.	316 LSS	A _ _	♦	♦
	Carbon Steel *	316 St. St.	Hastelloy C	B _ _	♦	♦
	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 Configuration	1/4" NPT			_ _ A	♦	
	1/2" NPT with Adapter			_ _ G	t	
	1/2" NPT			_ _ G		♦

TABLE II

No Selection	00000	♦	♦
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\* Carbon Steel heads are zinc-plated. Not recommended for water service due to hydrogen migration.  
Use Stainless Steel heads.

\*\* 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.

		Availability	
		STA9	STG9
		44	22
		74	40
TABLE III - OPTIONS	Selection		
None	00	♦	♦
HART <sup>®</sup> Protocol Compatible Electronics	HC	e	e
FOUNDATION Fieldbus Communications	FF	r	r
Analog Meter (0-100 Even 0-10 Square Root)	ME	♦	♦
Smart Meter	SM	♦	♦
Custom Configuration of Smart Meter	CI	m	m
Local Zero	LZ	x	
Local Zero and Span	ZS	s	
Lightning Protection	LP	♦	♦
Custom Calibration and I.D. in Memory	CC	♦	♦
Transmitter Configuration	TC	♦	♦
Write Protection	WP	♦	♦
End Cap Live Circuit Warning Label in Spanish (only with ATEX 3D)	SP	a	a
End Cap Live Circuit Warning Label in Portuguese (only with ATEX 3D)	PG	a	a
End Cap Live Circuit Warning Label in Italian (only with ATEX 3D)	TL	a	a
End Cap Live Circuit Warning Label in German (only with ATEX 3D)	GE	a	a
A286SS (NACE) Bolts and 302/304SS (NACE) Nuts for Heads	CR	♦	♦
Stainless Steel Customer Wired-On Tag (4 lines, 28 characters per line, customer supplied information)	TG	♦	♦
Stainless Steel Customer Wired-On Tag (blank)	TB	♦	♦
Adapter Flange - 1/2" NPT St. Steel	S1	c	
Adapter Flange - 1/2" NPT Hastelloy-C	T1	c	
Modified DIN Process Heads - 316SS	DN	w	v
Viton Process Head Gaskets (teflon is standard)	VT	♦	
Mounting Bracket - Carbon Steel	MB	♦	♦
Mounting Bracket - ST. ST.	SB	♦	♦
Flat Mounting Bracket - Carbon Steel	FB	♦	♦
316 ST.ST. Electronics Housing - <i>with M20 Conduit Connections</i>	SH	n	n
1/2" NPT to M20 316SS Conduit Adapter (BASEEFA EEx d IIC)	A1	n	n
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 Adapter ( <i>use for FM and CSA Approvals</i> )	A3	i	i
Side Vent/Drain	SV	d	
Blind DIN SS Flanges Mounted with NACE Bolts	B1	y	
Low Temperature - -50°C Ambient Limit	LT	z	
St. St. Reference Head (Carbon Steel Standard)	HR	♦	
Clean Transmitter for Oxygen or Chlorine Service with Certificate	OX	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	o	o
Additional Warranty - 1 year	W1	♦	♦
Additional Warranty - 2 years	W2	♦	♦
Additional Warranty - 3 years	W3	♦	♦
Additional Warranty - 4 years	W4	♦	♦

Table III continued next page

Availability

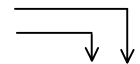
STA9  
STG9

TABLE III - OPTIONS (continued)

			Selection	44 74	22 40
Approval Body	Approval Type	Location or Classification			
No hazardous location approvals			9X	♦	♦
Factory Mutual	Explosion Proof	Class I, Div. 1, Groups A,B,C,D	1C	♦	♦
	Dust Ignition Proof	Class II, III Div. 1, Groups E,F,G			
	Non-Incendive	Class I, Div. 2, Groups A,B,C,D			
	Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G			
CSA	Explosion Proof	Class I, Div. 1, Groups B,C,D	2J	♦	♦
	Dust Ignition Proof	Class II, III, Div. 1, Groups E,F,G			
	Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G			
SA (Australia)	Intrinsically Safe	Ex ia IIC T4	4G	♦	♦
	Non-Sparking	Ex n IIC T6 (T4 with SM option)			
ATEX*	Intrinsically Safe, Zone 0/1	Ex ia IIC T4, T5, T6	3S	♦	♦
	Flameproof, Zone 1	Ex d IIC T5, T6, Enclosure IP 66/67	3D	♦	♦
	Non-Sparking, Zone 2	Ex nA, IIC T6 (Honeywell). Enclosure IP 66/67	3N	♦	♦
INMETRO (Brazil)	Flameproof, Zone 1	Ex d IIC T5	6D	♦	♦

\*See ATEX installation requirements in the ST 3000 User's Manual

97/23/EC Pressure Equipment Directive (PED)

The ST 3000 pressure transmitters listed in this Model Selection Guide are in conformity with the essential requirements of the PED. A formal statement from TÜV Industry Service Group of TÜV America, Inc., a division of TÜV Süddeutschland, a Notified Body regarding the Pressure Equipment Directive, is available upon request

TABLE IV

Factory Identification	XXXX	♦	♦
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**RESTRICTIONS**

Restriction		Available Only With		Not Available With
Letter	Table	Selection	Table	Selection
a	III	3D		
b		Select only one option from this group		
c	I	_ _ G		
d			III	DN, B1
e			III	4G
h	I	_ 2 _		
i	III	1C or 2J		
m	III	SM		
n			III	1C, 2J
o	III	CR or B1		
r			III	TC, ME, 4G, 3S
s			III	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	III	SV
x	III	FF, SM		
y	I III	E _ A, F _ A DN	III	SV
z			III	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,