

ST 3000 Series 900 Smart Transmitter Flange Mounted Liquid Level

Model Selection Guide With Price Data

Model Selection Guide

34-ST-16U-30 Issue 23

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

Span	Selection	Availability
0-25 to 0-400 inH ₂ O/0-62.2 to 0-1000 mbar Compound Characterized	STF924	↓
0-5 to 0-100 psi/0-0.34 to 0-7 bar Compound Characterized	STF932	↓
0-25 to 0-400 inH ₂ O/0-62.2 to 0-1000 mbar	STF92F	↓
0-5 to 0-100 psi/0-0.34 to 0-7 bar	STF93F	↓

TABLE I - METER BODY

TABLE 1 - METERS BODY										
Materials	Design	Ref. Hd.	Vent/Drain Valve ** on Ref. Hd.	Barrier Diaphragms (wetted)	Diaphragm Plate (wetted)	Extension (wetted)				
	Flush	Carbon* Steel	316 SS	316 LSS Hast C Hast C	316 SS 316 SS Hast C	N/A	A __ W __ B __	♦ ♦ ♦		
		316 SS		316 LSS Hast C Hast C	316 SS 316 SS Hast C		E __ X __ F __	♦ ♦ ♦		
		Hast C		Hast C	Hast C		Hast C	J __	♦	
		Extended		Carbon* Steel	316 SS		316 LSS Hast C	316 SS	316 SS	M __ N __
	316 SS		316 LSS Hast C	R __ S __		♦ ♦				
	Pseudo Flange	Carbon* Steel	316 SS	316 LSS Hast C	N/A	N/A	A __ B __		♦ ♦	
		316 SS		316 LSS Hast C			E __ F __		♦ ♦	
	Sanitary Flange (3-A)	316 SS	316SS	316 LSS	316 SS	316 SS	Z __	w		
	Fill Fluid (Meter Body & Flange)		Silicone CTFE					_ 1 _ _ 2 _	♦ ♦	♦ ♦
	Process Connection	Reference Head			Flange					
		1/4" NPT			High Pressure Side Low Pressure Side High Pressure Side Low Pressure Side			__ A __ C __ H __ K	♦ ♦ t t	♦ ♦ t t
1/2" NPT (with Adapter)										

* 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.

				STF9		Availability	
					24	2F	
TABLE II - FLANGE ASSEMBLY				Selection	32	3F	
No Selection				0 _ _ _ _	♦	♦	
Flange (ANSI Flanges have 125-500 AARH Surface Finish)	3" ANSI Class 150	Carbon Steel (non-wetted)	_ 1 _ _ _	y			
	3" ANSI Class 300		_ 2 _ _ _	y			
	DN80-PN40 DIN		_ 3 _ _ _	y			
	4" ANSI Class 150		_ 4 _ _ _	♦			
	4" ANSI Class 300		_ 5 _ _ _	♦			
	DN100-PN40 DIN		_ 6 _ _ _	♦			
	3" ANSI Class 150	304 SS (non-wetted)	_ A _ _ _	y			
	3" ANSI Class 300		_ B _ _ _	y			
	DN80-PN40 DIN		_ C _ _ _	y			
	4" ANSI Class 150		_ D _ _ _	♦			
	4" ANSI Class 300		_ E _ _ _	♦			
	DN100-PN40 DIN		_ F _ _ _	♦			
	3" ANSI Class 150	316 SS (non-wetted)	_ H _ _ _	y			
	3" ANSI Class 300		_ J _ _ _	y			
	DN80-PN40 DIN		_ K _ _ _	y			
	4" ANSI Class 150		_ L _ _ _	♦			
	4" ANSI Class 300		_ M _ _ _	♦			
	DN100-PN40 DIN		_ N _ _ _	♦			
Pseudo Flange on Standard DP 3" ANSI Class 150 w/Vent/Drain	316 SS (wetted)	_ R _ _ _			♦		
3" ANSI Class 150 w/o Vent/Drain		_ P _ _ _			♦		
3-A Sanitary Flange for 4" Ladish Tri-Clamp	316 SS (wetted)	_ S _ _ _	w				
Gasket Ring (wetted)	No Selection		_ _ 0 _ _	w	♦		
		316 SS	_ _ 1 _ _	g			
	Flush Design	Hast C	_ _ 2 _ _	g			
	Extended Design	316 SS	_ _ 5 _ _	v			
Extension (wetted)	No Selection		_ _ _ 0 _			♦	
	Flush		_ _ _ F _	h			
	Diameter	Length					
	2.86 Inches (for 3" or 4 " spud) ***	2 inches	_ _ _ 1 _	v			
		4 inches	_ _ _ 2 _	v			
		6 inches	_ _ _ 3 _	v			
	3.75 Inches (optional for 4" spud) ***	2 inches	_ _ _ 5 _	v			
		4 inches	_ _ _ 6 _	v			
		6 inches	_ _ _ 7 _	v			
	4 Inch Nominal Sanitary (for sanitary spud) ***	2 inches	_ _ _ A _	w			
6 inches		_ _ _ B _	w				
No Selection			_ _ _ _ 0	♦	♦		

*** For part numbers and pricing information on Tank Spuds refer to page ST-91 (Supplementary Accessories & Kits).

STF9

TABLE III - OPTIONS

	Selection	Availability	
		24 32	2F 3F
None	00	♦	♦
HART [®] 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	x
Local Zero and Span	ZS	s	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
316SS (NACE) Bolts and 304SS (NACE) Retaining Ring 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	c
Adapter Flange - 1/2" NPT Hastelloy-C	T1	c	c
Modified DIN Process Heads - 316SS	DN	z	z
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
Blind DIN SS Flanges Mounted with NACE Bolts	B1	d	d
Clean Transmitter for Oxygen or Chlorine Service with Certificate	0X	j	j
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

			STF9	Availability	
				24	2F
				32	3F
TABLE III - OPTIONS (continued)			Selection		
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 II 1 G EEx ia IIC T4, T5, T6	3S	♦	♦
	Flameproof, Zone 1	Ex II 2 G EEx d IIC T5, T6, Enclosure IP 66/67	3D	♦	♦
	Non-Sparking, Zone 2	Ex II 3 G EEx 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	__ H, __ K		
d	I	E _ A, F _ A, R _ A, S _ A, X _ A, E _ C, F _ C		
	III	DN		
e			III	4G
g	I	A __, B __, E __, F __, J __, W __, X __		
h			I	M __, N __, R __, S __, Z __
			II	__ 5, __, __ 0 __
i	III	1C or 2J		
j	I	_ 2 _		
m	III	SM		
n			III	1C, 2J
o	III	CR or B1		
r			III	TC, ME, 4G, 3S
s			III	FF, ME
t		Select from Table III S1, T1		
u	III	1C, 2J		
v	I	M __, N __, R __, S __		
w	I, II	Z __ - _ S0A _; Z __ - _ S0B _		
x	III	FF, SM		
y			II	__ 5 __, __ 6 __, __ 7 __
z	I	E _ A, F _ A, R _ A, S _ A, X _ A, E _ C, F _ C		

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.

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