

ST 3000 Smart Transmitter Flange Mounted Liquid Level Series 100

Model Selection Guide With Price Data

Model Selection Guide
34-ST-16U-21 Issue 31

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		
0-10" to 0-400" H ₂ O/0-25 to 0-1000 mbar Compound Characterized	STF128	↓
0-5 to 0-100 psi/0-0.34 to 7 bar Compound Characterized	STF132	↓
0-1" to 0-400" H ₂ O/0-2.5 to 0-1000 mbar	STF12F	↓
0-5 to 0-100 psi/0-0.34 to 0-7 bar	STF13F	↓
0-25" to 0-600" H ₂ O/0-62.2 to 0-1500 mbar	STF14F	↓

TABLE I - METER BODY

	Design	Ref. Hd.	**Vent Drain Valve on Ref. Head	Barrier Diaphragm. (wetted) Diaphragm	Diaphragm. Plate (wetted)	Extension (wetted)				
Materials	Flush	Carbon* Steel		316 LSS Hast C Hast C Monel	316 SS 316 SS Hast C Monel	N/A	A _ _ ♦			
							W _ _ ♦			
							B _ _ ♦			
							C _ _ ♦			
		316 SS	316 SS	316 LSS Hast C Hast C Monel	316 SS 316 SS Hast C Monel		E _ _ ♦			
							X _ _ ♦			
	Extended	Hast C Monel	Hast C Monel	Hast C Monel	Hast C Monel	316 SS	F _ _ ♦			
							G _ _ ♦			
		Carbon* Steel		316 LSS Hast C			J _ _ ♦			
							L _ _ ♦			
		316 SS	316 SS	316 LSS Hast C	316 SS		M _ _ ♦			
							N _ _ ♦			
	Pseudo Flange	Carbon* Steel	316 SS	316 LSS Hast C Monel	N/A	N/A	R _ _ ♦			
							S _ _ ♦			
		316 SS		316 LSS Hast C Monel			A _ _ ♦			♦
							B _ _ ♦			
							C _ _ ♦			
							E _ _ ♦			♦
	Sanitary Flange (3-A)					316 SS	F _ _ ♦			
							G _ _ ♦			
		316 SS	316SS	316 LSS	316 SS		Z _ _ w			

Table I continued next page

Availability

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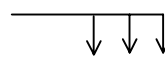


TABLE I - METER BODY (continued)

			Selection	28	2F	32	3F	4F
Fill Fluid (Meter Body & Flange)	Silicone		_ 1 _	♦	♦	♦		
	CTFE		_ 2 _	♦	♦			
Process Connection	Reference Head	Flange						
	1/4" NPT	High Pressure Side	_ _ A	♦	♦	♦		
	1/4" NPT	Low Pressure Side	_ _ C		♦	♦		
	1/2" NPT (with Adapter)	High Pressure Side	_ _ H	t	t	t		
	1/2" NPT (with Adapter)	Low Pressure Side	_ _ K		t	t		

* 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.

TABLE II - FLANGE ASSEMBLY

No Selection		0 _ _ _ _	y	♦	♦	
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						
2" ANSI Class 150 w/Vent/Drain	316 SS (wetted)	_ T _ _ _		♦	♦	
3" ANSI Class 150 w/Vent/Drain		_ 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	♦	♦
	Flush Design	316 SS	_ _ 1 _ _	g		
		Hast C	_ _ 2 _ _	g		
		Monel	_ _ 3 _ _	q		
Extended Design		316 SS	_ _ 5 _ _	v		

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TABLE II - FLANGE ASSEMBLY (continued)

			Selection	28	2F	
				32	3F	4F
	No Selection		___ 0 _		♦	♦
	Flush		___ F _	h		
Extension (wetted)	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).

TABLE III - OPTIONS

None	00	♦	♦	♦	
HART Protocol compatible electronics	HC	z	z	z	b
FOUNDATION Fieldbus Communications	FF	r	r	r	
Analog Meter (0-100 Even 0-10 Square Root)	ME	♦	♦	♦	b
Smart Meter	SM	♦	♦	♦	
Customer Configuration of Smart Meter	CI	e	e	e	
Local Zero & Span	ZS	m	m	m	b
Local Zero	LZ	x	x	x	
Lightning Protection	LP	♦	♦	♦	
Custom Calibration and I.D. in Memory	CC	♦	♦	♦	
Transmitter Configuration - non-Fieldbus	TC	♦	♦	♦	
Write Protection	WP	♦	♦	♦	
End Cap Live Circuit Warning Label in Spanish (only with ATEX 3D)	SP	a	a	a	b
End Cap Live Circuit Warning Label in Portuguese (only with ATEX 3D)	PG	a	a	a	
End Cap Live Circuit Warning Label in Italian (only with ATEX 3D)	TL	a	a	a	
End Cap Live Circuit Warning Label in German (only with ATEX 3D)	GE	a	a	a	
Stainless Steel Customer Wired-On Tag (blank)	TB	♦	♦	♦	
Adapter Flange - 1/2" NPT St. Steel	S1	c	c	c	b
Adapter Flange - 1/2" NPT Hastelloy-C	T1	c	c	c	
Adapter Flange - 1/2" NPT Monel	V1	c	c	c	
Modified DIN Process Heads - 316SS	DN	d	d	d	
316 ST.ST. Electronics Housing - with M20 Conduit Connections	SH	n	n	n	b
1/2" NPT to M20 316SS Conduit Adapter (BASEEFA EEx d IIC)	A1	n	n	n	
1/2" NPT to 3/4" NPT 316 SS Conduit Adapter	A2	u	u	u	
Stainless Steel Housing with M20 to 1/2" NPT 316 SS Conduit Adapter (use for FM and CSA Approvals)	A3	i	i	i	
Blind DIN SS Flanges Mounted with NACE Bolts	B1	p	p	p	
Clean Transmitter for Oxygen or Chlorine Service with Certificate	0X	j	j	j	
Over-Pressure Leak Test with F3392 Certificate	TP	♦	♦	♦	
Calibration Test Report and Certificate of Conformance (F3399)	F1	♦	♦	♦	b
Certificate of Conformance (F3391)	F3	♦	♦	♦	
Certificate of Origin (F0195)	F5	♦	♦	♦	
FMEDA (SIL) Certificate	F6	♦	♦	♦	
NACE Certificate (F0198)	F7	o	o	o	
Additional Warranty - 1 year	W1	♦	♦	♦	b
Additional Warranty - 2 years	W2	♦	♦	♦	
Additional Warranty - 3 years	W3	♦	♦	♦	
Additional Warranty - 4 years	W4	♦	♦	♦	
Lifetime Warranty - 15 years	WL	♦	♦	♦	

Table III continued next page

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Selection
28 2F
32 3F 4F

TABLE III - OPTIONS (continued)

Approval Body	Approval Type	Location or Classification	Selection	28	2F	32	3F	4F
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 Letter	Table	Available Only With Selection	Table	Not Available With Selection
a	III	3D		
b		Select only one option from this group		
c	I	H, K		
d	I	E _ A, R _ A, S _ A, X _ A, F _ A, G _ A, E _ C, F _ C, G _ C		
e	III	SM		
g		A _ , B _ , E _ , F _ , J _ , W _ , X _		
h			I II	M _ , N _ , R _ , S _ , Z _ 5
i	III	1C or 2J		
j	I	2		
m			III	ME, FF
n			III	1C, 2J
o	III	CR or B1		
p	III	DN		
q	I	C _ , G _ , L _		
r			III	TC, ME, 4G, 3S
t	III	S1, T1, V1		
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			III	4G

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