

## ST 3000 Smart Transmitter Differential Pressure (DP) Series 100

## Model Selection Guide With Price Data

Model Selection Guide  
34-ST-16U-01 Issue 38

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### 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  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ + \_\_\_\_\_

KEY NUMBER	Selection	Availability				
<b>Span</b>						
0-1" to 0-400" H <sub>2</sub> O/0-2.5 to 0-1000 mbar	STD120	↓				
Body Rating: 4500 psi (315 bar)			↓			
0-5 to 0-100 psi/0-0.35 to 0-7 bar	STD130					
Body Rating: 4500 psi (315 bar)				↓		
0-100 to 0-3000 psi/0-7 to 0-210 bar	STD170					
Body Rating: 4500 psi (315 bar)					↓	
0-25" to 0-600" H <sub>2</sub> O/0-62.2 to 0-1500 mbar	STD125					↓
Body Rating: 3000 psi (210 bar)						
0-0.4" to 0-10" H <sub>2</sub> O/0-1 to 0-25 mbar	STD110					↓
Body Rating: 50 psi (3.5 bar) Compound Characterized						

TABLE I - METER BODY

	Wetted Process Heads	Vent/Drain Valves ** and Plugs	Barrier Diaphragms						
Material of Construction	Carbon Steel *	316 St. St.	316 LSS	A _ _	♦	♦	♦	♦	♦
	Carbon Steel *	316 St. St.	Hastelloy C	B _ _	♦	♦	♦		
	Carbon Steel *	316 St. St.	Monel	C _ _	♦	♦			
	Carbon Steel *	316 St. St.	Tantalum	D _ _	♦	♦			
	316 St. St.	316 St. St.	316 LSS	E _ _	♦	♦	♦	♦	♦
	316 St. St.	316 St. St.	Hastelloy C	F _ _	♦	♦	♦		
	316 St. St.	316 St. St.	Monel	G _ _	♦	♦			
	316 St. St.	316 St. St.	Tantalum	H _ _	♦	♦			
	Hastelloy C	Hastelloy C	Hastelloy C	J _ _	♦	♦	♦		
	Hastelloy C	Hastelloy C	Tantalum	K _ _	♦	♦			
	Monel	Monel	Monel	L _ _	♦	♦			
Fill Fluid	Silicone			_ 1 _	♦	♦	♦	♦	♦
	CTFE			_ 2 _	♦	♦	♦		
Process Head Configuration	1/4" NPT			_ _ A	♦	♦	♦	♦	♦
	1/2" NPT with Adapter (on 1/4" NPT Head)			_ _ H	t	t	t	t	t

\* Carbon Steel heads are zinc-plated.

\*\* Vent/Drains are Teflon coated for lubricity.

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Availability

STD1

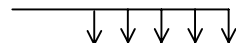


TABLE II

	Selection	20	30	70	25	10
No Selection	00000	*	*	*	*	*

TABLE III - OPTIONS

None	00	*	*	*	*	*	
<b>Communication Options</b>							
FOUNDATION Fieldbus Communications	FF	r	r	r	r	r	b
HART Protocol compatible electronics	HC	y	y	y	y	y	b
<b>Indicating Meter Options</b>							
Analog Meter (0-100 Even 0-10 Square Root)	ME	*	*	*	*	*	b
Smart Meter	SM	*	*	*	*	*	b
Customer Configuration of Smart Meter	CI	e	e	e	e	e	
Local Zero & Span	ZS	m	m	m	m	m	b
Local Zero	LZ	x	x	x	x	x	b
<b>Transmitter Housing &amp; Electronics Options</b>							
Lightning Protection	LP	*	*	*	*	*	
Custom Calibration and I.D. in Memory	CC	*	*	*	*	*	
Transmitter Configuration - non-Fieldbus	TC	*	*	*	*	*	
Write Protection	WP	*	*	*	*	*	
316 ST.ST. Electronics Housing - <i>with M20 Conduit Connections</i>	SH	n	n	n	n	n	b
1/2" NPT to M20 316SS Conduit Adapter (BASEEFA EEx d IIC)	A1	n	n	n	n	n	b
1/2" NPT to 3/4" NPT 316 SS Conduit Adapter	A2	i	i	i	i	i	
Stainless Steel Housing with M20 to 1/2" NPT 316 SS Conduit Adapter ( <i>use for FM and CSA Approvals</i> )	A3	i	i	i	i	i	
316SS (NACE) Bolts for Adapters							
Stainless Steel Customer Wired-On Tag	TG	*	*	*	*	*	
(4 lines, 28 characters per line, customer supplied information)							
Stainless Steel Customer Wired-On Tag (blank)	TB	*	*	*	*	*	
High Accuracy	HA	*					
End Cap Live Circuit Warning Label in Spanish (only with ATEX 3D)	SP	a	a	a	a	a	b
End Cap Live Circuit Warning Label in Portuguese (only with ATEX 3D)	PG	a	a	a	a	a	b
End Cap Live Circuit Warning Label in Italian (only with ATEX 3D)	TL	a	a	a	a	a	
End Cap Live Circuit Warning Label in German (only with ATEX 3D)	GE	a	a	a	a	a	
<b>Meter Body Options</b>							
316 SS Bolts and 316 SS Nuts for Process Heads	SS	*	*	*	*	*	b
B7M Bolts and Nuts for Process Heads	B7	*	*	*	*	*	b
A286SS (NACE) Bolts and 302/304SS (NACE) Nuts for Heads and	CR	*	*	*	*	*	
316SS Adapter Flange - 1/2" NPT with CS Bolts	S2	c	c	c	c	c	
316SS Adapter Flange - 1/2" NPT with 316SS Bolts	S3	c	c	c		c	
316SS Adapter Flange - 1/2" NPT with NACE A286 Bolts	S4	c	c	c		c	
316SS Adapter Flange - 1/2" NPT with B7M Bolts	S5	c	c	c		c	
Hastelloy C Adapter Flange - 1/2" NPT with CS Bolts	T2	c	c	c			b
Hastelloy C Adapter Flange - 1/2" NPT with 316SS Bolts	T3	c	c	c			
Monel Adapter Flange - 1/2" NPT with CS Bolts	V2	c	c	c			
Monel Adapter Flange - 1/2" NPT with 316SS Bolts	V3	c	c	c			
316SS Blind Adapter Flange with CS Bolts	B3	*	*	*	*	*	
316SS Blind Adapter Flange with 316SS Bolts	B4	*	*	*	*	*	
316SS Blind Adapter Flange with NACE A286 Bolts	B5	*	*	*	*	*	b
316SS Blind Adapter Flange with B7M Bolts	B6	*	*	*	*	*	
Side Vent/Drain (End Vent Drain is standard)	SV	*	*	*	*	*	
SS Center Vent Drain and Bushing	CV	*	*	*	*	*	

Availability

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TABLE III - OPTIONS (continued)

	Selection	20	30	70	25	10	
Viton Process Head Gaskets (adapter gaskets ordered separately)	VT	*	*	*	*	*	
Viton Flange Adaptor Gaskets	VF	*	*	*	*	*	
<b>Transmitter Mounting Brackets Options</b>							
Mounting Bracket - Carbon Steel	MB	*	*	*	*	*	b
Mounting Bracket - ST. ST.	SB	*	*	*	*	*	
Flat Mounting Bracket - Carbon Steel	FB	*	*	*	*	*	
<b>Services/Certificates Options</b>							
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	o	o	
Marine Type Approvals	MT	*	*	*	*	*	
<b>Warranty Options</b>							
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	*	*	*	*	*	

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Availability

TABLE III - OPTIONS (continued)

Certificate	Approval Type	Location or Classification	Selection	20	30	70	25	10
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	Ⓔ II 1 G EEx ia IIC T4, T5,T6	3S	*	*	*	*	*
	Flameproof, Zone 1	Ⓔ II 2 G EEx d IIC T5, T6, Enclosure IP 66/67	3D	*	*	*	*	*
	Non-Sparking, Zone 2	Ⓔ 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
<b>a</b>	III	3D		
<b>b</b>		Select only one option from this group		
<b>c</b>	I	__ H		
<b>e</b>	III	SM		
<b>i</b>	III	1C or 2J		
<b>j</b>	I	__ 2		
<b>m</b>			III	ME, FF
<b>n</b>			III	1C, 2J
<b>o</b>	III	CR, S4, B5		
<b>r</b>			III	TC, ME, 4G
<b>t</b>	III	S2,S3,S4,S5,T2,T3,V2,V3		
<b>x</b>	III	FF, SM		
<b>y</b>			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.