

ST 3000 Smart Transmitter Gage Pressure (GP) & Absolute Pressure (AP) Series 100

Model Selection Guide With Price Data

Model Selection Guide
34-ST-16U-03 Issue 32

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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
 _____ - _____ - _____ - _____ + XXXX

KEY NUMBER

Selection Availability

	Design	Span					
Gage Pressure	Head	0-5 to 0-500 psi/0-0.34 to 0-35 bar	STG140	↓			
		0-100 to 0-3000 psi/0-7 to 0-210 bar	STG170	↓			
		0-100 to 0-6000 psi/0-7 to 0-420 bar	STG180			↓	
	In-Line	0-5 to 0-500 psi/0-0.34 to 0-35 bar	STG14L				↓
		0-100 to 0-3000 psi/0-7 to 0-210 bar	STG17L				↓
		0-100 to 0-6000 psi/0-7 to 0-420 bar	STG18L				↓
Absolute Pressure	Single Head	0-200 to 0-10000 psi/0-14 to 0-690 bar	STG19L				↓
		0-50 to 0-780 mm HgA/0-67 to 0-1040 mbarA	STA122	↓			
		0-5 to 0-500 psi/0-0.34 to 0-35 bar absolute	STA140		↓		

TABLE I - METER BODY

	Wetted Process Heads	Vent/Drain Valves **	Barrier Diaphragms					
Materials of Construction	Carbon Steel *	-	316 LSS	A _ _	♦	♦	♦	
	Carbon Steel *	-	Hastelloy C	B _ _	♦	♦	♦	
	Carbon Steel *	-	Monel	C _ _	♦	♦		
	316 St. St. ***	-	316 LSS	E _ _	♦	♦	♦	
	***	-	316 LSS	E _ _				♦
	316 St. St. ***	-	Hastelloy C	F _ _	♦	♦	♦	
	***	-	Hastelloy C	F _ _				♦
	316 St. St.	-	Monel	G _ _	♦	♦		
	Hastelloy C	-	Hastelloy C	J _ _	♦	♦	♦	
	Monel	-	Monel	L _ _	♦	♦		
Fill Fluid	Silicone DC200 ****			_ 1 _	♦	♦	♦	♦
	CTFE			_ 2 _	♦	♦	♦	♦
Process Head Configuration	9/16" - 18 Aminco			_ _ A	♦	♦	♦	
	1/2 NPT (female)			_ _ G	♦	♦	♦	♦

* 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.

*** STGIXL has 316 SS process interface.

**** If STA122 operating below 50mm HgA, see Figure 2 in Specification 34-ST-03-61 and contact Marketing Applications for a "Special" Silicone DC704 quote.

Industrial Measurement and Control, 2500 W. Union Hill Drive, Phoenix, AZ 85027

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STG170, STG180

STA140

STA122

STG140

STG14L

STG17L,

STG18L

STG19L

TABLE II

Selection

No Selection	00000	♦	♦	♦	♦	♦	♦
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TABLE III - OPTIONS

None	00	♦	♦	♦	♦	♦	♦	
FOUNDATION Fieldbus Communications	FF	r	r	r	r	r	r	b
HART Protocol compatible electronics	HC	y	y	y	y	y	y	b
Analog Meter (0-100 Even 0-10 Square Root)	ME	♦	♦	♦	♦	♦	♦	
Smart Meter	SM	♦	♦	♦	♦	♦	♦	
Customer Configuration of Smart Meter	CI	e	e	e	e	e	e	
Local Zero & Span	ZS	m			m	m	m	b
Local Zero	LZ	x			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	a	a	a	b
End Cap Live Circuit Warning Label in Portuguese (only with ATEX 3D)	PG	a	a	a	a	a	a	
End Cap Live Circuit Warning Label in Italian (only with ATEX 3D)	TL	a	a	a	a	a	a	
End Cap Live Circuit Warning Label in German (only with ATEX 3D)	GE	a	a	a	a	a	a	
A286SS (NACE) Bolts and 302/304SS (NACE) Nuts for Head	CR	♦	♦	♦	♦	♦	♦	
Stainless Steel Customer Wired-On Tag	TG	♦	♦	♦	♦	♦	♦	
(4 lines, 28 characters per line, customer supplied information)								
Stainless Steel Customer Wired-On Tag (blank)	TB	♦	♦	♦	♦	♦	♦	
Modified DIN Process Heads - 316SS	DN	w	w	w	w			
Viton Process Head Gasket (Teflon is standard)	VT	z			z			
Mounting Bracket - Carbon Steel	MB	♦	♦	♦	♦	♦	♦	b
Mounting Bracket - ST. ST.	SB	♦	♦	♦	♦	♦	♦	
Flat Mounting Bracket - Carbon Steel	FB	♦	♦	♦	♦	♦	♦	
316 ST.ST. Electronics Housing - (with M20 Conduit Connections)	SH	n	n	n	n	n	n	b
1/2" NPT to M20 316SS Conduit Adapter (BASEEFA EEx d IIC)	A1	n	n	n	n	n	n	
1/2" NPT to 3/4" NPT 316 SS Conduit Adapter	A2	u	u	u	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	i	i	i	
Clean Transmitter for Oxygen or Chlorine Service with Certificate	OX	h	h	h	h	h	h	
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	♦	♦	
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	♦	♦	♦	♦	♦	♦	
High Accuracy	HA	♦						

STG170, STG180
STA140
STA122
STG140

STG14L
STG17L, STG18L

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		
e	III	SM		
h		_ 2 _		
i	III	1C or 2J		
m			III	ME, FF
n			III	1C, 2J
o	III	CR		
r			III	TC, ME, 4G, 3S
u	III	1C, 2J		
w	I	E _ G, F _ G, G _ G		
x	III	FF, SM		
z			I	B _ _, F _ _, J _ _
y			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.

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