Honeywell

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

Model Selection Guide





Instructions

- Select the desired Key Number. The arrow to the right marks the selection available.
- Make one selection from each Table (I, II and IV) using the column below the proper arrow.
- Select as many Table III options as desired plus a required communications option selection.
- A (•) denotes unrestricted availability. A letter denotes restricted availability.
- Restrictions follow Table IV.

Key Number		ı		II		III (Optional)		IV
	-		l - [00000	7 -		+	XXXX

KEY NUMBER

	Design	Span	Selection			F						
	Cinalo	0-5 to 0-500 psi / 0-0.34 to 0-35 bar	STG140			\downarrow						
	Single Head	0-30 to 0-3,000 psi / 0-2.1 to 0-210 bar	STG170				\downarrow					1
Cogo	Heau	0-60 to 0-6,000 psi / 0-4.1 to 0-420 bar	STG180					\downarrow				
Gage Pressure		0-5 to 0-500 psi / 0-0.34 to 0-35 bar	STG14L						\forall			
Fiessule	In-Line	0-30 to 0-3,000 psi / 0-2.1 to 0-210 bar	STG17L							$ \downarrow $		
	in-Line	0-60 to 0-6,000 psi / 0-4.1 to 0-420 bar	STG18L							$ \downarrow $		
		0-100 to 0-10,000 psi / 0-7 to 0-690 bar	STG19L								\downarrow	1
	Single	0-50 to 0-780 mm HgA / 0-67 to 0-1,040 mbarA	STA122	\downarrow								
Absolute	Head	0-5 to 0-500 psi/0-0.34 to 0-35 bar absolute	STA140		\downarrow							
Pressure		0-50 to 0-780 mm HgA / 0-67 to 0-1,040 mbarA	STA12L									$\overline{\downarrow}$
riessule	In-Line	0-5 to 0-500 psia / 0-0.34 to 0-35 barA	STA14L							\downarrow		1
		0-30 to 0-3,000 psia / 0-2.1 to 0-210 barA	STA17L							$ \psi $		

Important Note:

Base STG and STA models no longer include a default communications option. All units now <u>require</u> the selection of a communication option from Table III (AN, DE, HC, H6 or FF).

TABLE I - METER BODY

	Wetted Process Heads / Bonnet	Vent/Drain Valves	Barrier Diaphragms	Selection									
	Carbon Steel 1	-	316L SS	A	•	•	•	•	•				
	Carbon Steel 1	-	Hastelloy® C-276 3	B	•	•	•	•	•				
	Carbon Steel 1	-	Monel 400 ^{® 4}	C	19	19	19	19					
	316 SS ⁵	-	316L SS	E	•	•	•	•	•				
Materials of	*	-	316L SS	E						•	•	•	•
Construction	316 SS ⁵	-	Hastelloy® C-276 3	F	•	•	•	•	•				
	*	-	Hastelloy® C-276 3	F						•	•	•	•
	316 SS ⁵	-	Monel 400 ^{® 4}	G	19	19	19	19					
	Hastelloy [®] C-276 ^{3, 6}	-	Hastelloy® C-276 3	J	•	•	•	•	•				
	Monel 400 ^{® 7}	-	Monel 400 ^{® 4}	L	19	19	19	19					
		ilicone DC®20	0 8	_1_	•	•	•	•	•	•	•	•	•
Fill Fluid		E (Halocarbor		_2_		•	•	•	•	•	•	•	
		CTFE (MO-10))	_4_	•								•
	9/	/16" - 18 Amin	СО	A			•	•	•	•	•	•	•
Process Connection	1.	/2 NPT (femal	e)	G	•	•	•	•	•	•	•	•	•
Configuration	,	1/2 NPT (male	e)	H						•	•	•	•
		DIN 19213	•	D						•	•		•

Carbon Steel heads are zinc-plated and not recommended for water service due to hydrogen migration. For that service, use 316 stainless steel Wetted Process Heads.

³ Hastelloy[®] C-276 or UNS N10276

⁴ Monel 400[®] or UNS N04400

⁵ Supplied as 316 SS or as Grade CF8M, the casting equivalent of 316 SS.

⁶ Supplied as indicated or as Grade CW12MW, the casting equivalent of Hastelloy[®] C-276

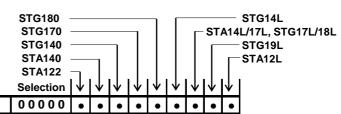
 $^{^7}$ Supplied as indicated or as Grade M30C, the casting equivalent of Monel $400^{\$}$

 $^{^{8}}$ Use DC 8 704 option when the STA122 or STA12L will be operating below 50mm HgA, see Fig. 2 in Specification 34-ST-03-65.

^{*} STG1 L has 316L SS process interface.

TABLE II

No Selection



No Selection	00000	•	•	•	•	•	•	•	•	<u> </u>
TABLE III - OPTIONS										
Communication Options (Must choose a communications option)										
Analog only (can be configured using appropriate Honeywell DE tool)	AN	•	•	•	•	•	•	•	•	•
DE Protocol communications	DE	•	•	•	•	•	•		•	•
HART® 6.x Protocol Compatible Electronics	H6	•	•	•	•	•	•		•	•
FOUNDATION TM Fieldbus Communications	FF	r	r	r	r	r	r	l r	r	r
Indicating Meter Options										
Analog Meter (0-100 Even 0-10 Square Root)	ME	•	•	•	•	•	•	•	•	•
Smart Meter	SM	•	•	•	•	•	•	•	•	•
Custom Configuration of Smart Meter	CI	е	е	е	е	е	е	e	е	e —
Local Zero & Span	ZS			m	m	m	m	m	m	
Local Zero	LZ			х	х	х	х	x	х	
Transmitter Housing & Electronics Options										
No housing conduit plugs come standard with the ST 3000.										7
For certain approval codes, you must select select a certified couduit plug										
from below and it will come packaged in the box with your transmitter.										
, , ,	SH	_	_	_	_		_	۱.	_	<u>.</u> ⊢
316 SS ⁵ Electronics Housing - (with M20 Conduit Connections)	311	n	n	n	n	n	n	n	n	n
316 SS ⁵ Electronics Housing - (with M20 to 1/2 NPT 316 SS Conduit	A3	i	i	i	i	i	i	i	i	i
Adapter for use with FM and CSA Approval codes)										—
1/2 NPT to M20 316 SS Conduit Adaptor (Certified ATEX, CSA & IECEx)	A1	n	n	n	n	n	n	n	n	n
1/2 NPT to 3/4 NPT 316 SS Conduit Adaptor (Certified ATEX, CSA & IECEx)	A2	•	•	•	•	•	•	•	•	•
M20 Male to 1/2 NPT Female 316 SS Conduit Adaptor (Certified ATEX, CSA	A4	•	•	•	•	•	•		•	•
& IECEx)			-		Ī		-	اً		
1/2 NPT Zinc-plated Certified Conduit Plug (ATEX, CSA & IECEx)	A5	•	•	•	•	•	•	•	•	•
1/2 NPT 316 SS Certified Conduit Plug (ATEX, CSA & IECEx)	A6	•	•	•	•	•	•	•	•	•
M20 316 SS Certified Conduit Plug (ATEX, CSA & IECEx)	A7	•	•	•	•	•	•	•	•	•
1/2 NPT Non-certified Conduit plug (Zinc-plated carbon steel, general use)	A8	•	•	•	•	•	•	•	•	•
NAMUR Failsafe Software	NE	15	15	15	15	15	15	15	15	15
SIL 2 - TÜV Certified transmitter (requires HC/H6 and WP options)	SL	р	р	р	р	р	р	p	р	р
Lightning Protection	LP	•	•	•	•	•	•	•	•	•
Custom Calibration and I.D. in Memory	cc	•	•	•	•	•	•	•	•	•
Transmitter Configuration - (non-Fieldbus)	TC	15	15	15	15	15	15	15	15	15
Transmitter Configuration - (Fieldbus)	FC	21	21	21		21				21
Write Protection (Delivered in "ON" position)	WP	•	•	•	•	•	•		•	• -
Write Protection (Delivered in "OFF" position)	WX	g	g	g	g	g	g	g	g	g
Stainless Steel Customer Wired-On Tag (4 lines, 26 characters per line,		9	9	ย	9	9	9	"	9	* -
customer supplied information)	TG	•	•	•	•	•	•	•	•	•
Stainless Steel Customer Wired-On Tag (blank)	ТВ	•						١.		
High Accuracy	HA		•	d			d	•		1
Meter Body Options	11/1			ŭ			ŭ			
A286 SS (NACE) Bolts and 304 SS (NACE) Nuts for Head										_
316 SS Bolts and 316 SS Nuts for Proces Heads	CR	_			_	•				
	CR SS	•	•	•	• f	٠.				
	SS	•	•	• f	f	f •				
Modified DIN Process Heads - 316 SS	SS DN	• w	«	w	w	w				
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard)	SS DN VT		. A •			-				F
Modified DIN Process Heads - 316 SS Viton [®] Process Head Gasket <i>(Teflon[®] is standard)</i> Graphite Process Head Gasket	SS DN VT GF	•	• 8 •	w	w	w				
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon®® Process Head Gasket (Viton® is standard)	SS DN VT		• «	w	w	w				F
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon®® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options	SS DN VT GF TF	•	• • •	w	w	w				
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon®® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel	SS DN VT GF TF	•	• • •	w	w	w		•	•	F
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel	SS DN VT GF TF MB MX	•	• • •	w	w	w	• •	•	•	•
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS	SS DN VT GF TF MB MX SB	•	• • •	w	w	w	•••	•	•	
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS Marine Approved Angle Mounting Bracket - 304 SS	SS DN VT GF TF MB MX SB SX	•	• • • •	w	w	w	• • •	•	•	•
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS Marine Approved Angle Mounting Bracket - 304 SS Flat Mounting Bracket - Carbon Steel	SS DN VT GF TF MB MX SB	•	• • •	w	w	w	• • • •	•	•	•
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS Marine Approved Angle Mounting Bracket - 304 SS Flat Mounting Bracket - Carbon Steel Services/Certificates/Marine Type Approval Options	SS DN VT GF TF MB MX SB SX FB	• • • • • •	• w	w	w	w	• • • •	•	•	•
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS Marine Approved Angle Mounting Bracket - 304 SS Flat Mounting Bracket - Carbon Steel Services/Certificates/Marine Type Approval Options User's Manual Paper Copy (Standard, HC, H6 or FF ships accordingly)	SS DN VT GF TF MB MX SB SX FB	• • • • • •	• • • • • • • • • • • • • • • • • • • •	w z •	w z	w z		• • • • • • • • • • • • • • • • • • • •	•	•
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS Marine Approved Angle Mounting Bracket - 304 SS Flat Mounting Bracket - Carbon Steel Services/Certificates/Marine Type Approval Options User's Manual Paper Copy (Standard, HC, H6 or FF ships accordingly) Clean Transmitter for Oxygen or Chlorine Service with Certificate (50039190)	SS DN VT GF TF MB MX SB SX FB UM OX	• • • • • •	• w • • • • h	w	w	w	• • • • h	• • • •	• • • • h	•
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS Marine Approved Angle Mounting Bracket - 304 SS Flat Mounting Bracket - Carbon Steel Services/Certificates/Marine Type Approval Options User's Manual Paper Copy (Standard, HC, H6 or FF ships accordingly) Clean Transmitter for Oxygen or Chlorine Service with Certificate (50039190) Over-Pressure Leak Test with Certificate (F3392)	SS DN VT GF TF MB MX SB SX FB UM OX TP	• • • • • •	• • • • • • • • • • • • • • • • • • • •	w z •	w z	w z	• • • h	• • • • h	•	•
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS Marine Approved Angle Mounting Bracket - 304 SS Flat Mounting Bracket - Carbon Steel Services/Certificates/Marine Type Approval Options User's Manual Paper Copy (Standard, HC, H6 or FF ships accordingly) Clean Transmitter for Oxygen or Chlorine Service with Certificate (50039190) Over-Pressure Leak Test with Certificate (F3392) Calibration Test Report and Certificate of Conformance (F3399)	SS DN VT GF TF MB MX SB SX FB UM OX TP F1	• • • • • •	• • • • • • • • • • • • • • • • • • • •	w z •	w z	w z	• • • • h	• • • • h	•	• • • • • • • • • • • • • • • • • • •
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS Marine Approved Angle Mounting Bracket - 304 SS Flat Mounting Bracket - Carbon Steel Services/Certificates/Marine Type Approval Options User's Manual Paper Copy (Standard, HC, H6 or FF ships accordingly) Clean Transmitter for Oxygen or Chlorine Service with Certificate (50039190) Over-Pressure Leak Test with Certificate (F3392) Calibration Test Report and Certificate of Conformance (F3399) Certificate of Conformance (F3391)	SS DN VT GF TF MB MX SB SX FB UM OX TP F1 F3	• • • • • •	• • • • • • • • • • • • • • • • • • • •	w z •	w z	w z	• • • • • • • • • • • • • • • • • • •	• • • • h	•	• • • • • • • • • • • • • • • • • • •
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS Marine Approved Angle Mounting Bracket - 304 SS Flat Mounting Bracket - Carbon Steel Services/Certificates/Marine Type Approval Options User's Manual Paper Copy (Standard, HC, H6 or FF ships accordingly) Clean Transmitter for Oxygen or Chlorine Service with Certificate (50039190) Over-Pressure Leak Test with Certificate (F3392) Calibration Test Report and Certificate of Conformance (F3399) Certificate of Origin (F0195)	SS DN VT GF TF MB MX SB SX FB UM OX TP F1 F3 F5	• • • • h	• • • • h	w z • • • • • • h • • • • •	• • • • h	• • • h	•	•	• h	• • • • • • • • • • • • • • • • • • •
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS Marine Approved Angle Mounting Bracket - 304 SS Flat Mounting Bracket - Carbon Steel Services/Certificates/Marine Type Approval Options User's Manual Paper Copy (Standard, HC, H6 or FF ships accordingly) Clean Transmitter for Oxygen or Chlorine Service with Certificate (50039190) Over-Pressure Leak Test with Certificate (F3392) Calibration Test Report and Certificate of Conformance (F3399) Certificate of Conformance (F3391) Certificate (SIL 2/3) (FC33337)	SS DN VT GF TF MB MX SB SX FB UM OX TP F1 F3 F5 FE	• • • • • •	• • • • • • • • • • • • • • • • • • • •	w z •	• • • • h	w z	•	• • • • h	• h	• • • • • • • • • • • • • • • • • • •
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon®9 Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS Marine Approved Angle Mounting Bracket - 304 SS Flat Mounting Bracket - Carbon Steel Services/Certificates/Marine Type Approval Options User's Manual Paper Copy (Standard, HC, H6 or FF ships accordingly) Clean Transmitter for Oxygen or Chlorine Service with Certificate (50039190) Over-Pressure Leak Test with Certificate (F3392) Calibration Test Report and Certificate of Conformance (F3399) Certificate of Conformance (F3391) Certificate (SIL 2/3) (FC33337) SIL Certificate (Process-Wetted & Non-Process Wetted) (FC33339)	SS DN VT GF TF MB MX SB SX FB UM OX TP F1 F3 F5 FE F7	• • • • h	• • • • h	w z • • • • • • h • • • • •	• • • • h	• • • h	•	•	• h	• • • • • • • • • • • • • • • • • • •
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS Marine Approved Angle Mounting Bracket - 304 SS Flat Mounting Bracket - Carbon Steel Services/Certificates/Marine Type Approval Options User's Manual Paper Copy (Standard, HC, H6 or FF ships accordingly) Clean Transmitter for Oxygen or Chlorine Service with Certificate (50039190) Over-Pressure Leak Test with Certificate (F3392) Calibration Test Report and Certificate of Conformance (F3399) Certificate of Conformance (F3391) Certificate (SIL 2/3) (FC33337) NACE Certificate (Process-Wetted & Non-Process Wetted) (FC33339) NACE Certificate (Process-Wetted) (FC33338)	SS DN VT GF TF MB MX SB SX FB UM OX TP F1 F3 F5 FE	• • • • • • h	• • • • • h • • • 222	w z	w z	w z	• • • 22	• • • 22	• h	• • • • • • • • • • • • • • • • • • •
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS Marine Approved Angle Mounting Bracket - 304 SS Flat Mounting Bracket - Carbon Steel Services/Certificates/Marine Type Approval Options User's Manual Paper Copy (Standard, HC, H6 or FF ships accordingly) Clean Transmitter for Oxygen or Chlorine Service with Certificate (50039190) Over-Pressure Leak Test with Certificate (F3392) Calibration Test Report and Certificate of Conformance (F3399) Certificate of Conformance (F3391) Certificate (SIL 2/3) (FC33337) NACE Certificate (Process-Wetted & Non-Process Wetted) (FC33339)	SS DN VT GF TF MB MX SB SX FB UM OX TP F1 F3 F5 FE F7 FG FX	• • • • • h • • • • 22 o	• • • • • h • • • 222	w z	w z	w z	• • • 22	• • • 22	• h • • • 22	• • • • • • • • • • • • • • • • • • •
Modified DIN Process Heads - 316 SS Viton® Process Head Gasket (Teflon® is standard) Graphite Process Head Gasket Teflon® Process Head Gasket (Viton® is standard) Transmitter Mounting Bracket Options Angle Mounting Bracket - Carbon Steel Marine Approved Angle Mounting Bracket - Carbon Steel Angle Mounting Bracket - 304 SS Marine Approved Angle Mounting Bracket - 304 SS Flat Mounting Bracket - Carbon Steel Services/Certificates/Marine Type Approval Options User's Manual Paper Copy (Standard, HC, H6 or FF ships accordingly) Clean Transmitter for Oxygen or Chlorine Service with Certificate (50039190) Over-Pressure Leak Test with Certificate (F3392) Calibration Test Report and Certificate of Conformance (F3399) Certificate of Conformance (F3391) Certificate (SIL 2/3) (FC33337) NACE Certificate (Process-Wetted & Non-Process Wetted) (FC33339) NACE Certificate (Process-Wetted) (FC33338)	SS DN VT GF TF MB MX SB SX FB UM OX TP F1 F3 F5 FE F7 FG	• • • • • h • • • • 22 o	• • • • • h • • • 222	w z	w z	w z	• • • 22	• • • 22	• h • • • 22	• • • • • • • • • • • • • • • • • • •

 5 Supplied as 316 SS or as Grade CF8M, the casting equivalent of 316 SS. 8 Viton 8 or Fluorocarbon Elastomer 9 Teflon 8 or PTFE

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STG14L - STA14L/17L, STG17L/18L STG19L STG180 STG170 STG140 STA140 STA12L TABLE III - OPTIONS (continued)
Warranty Options
Additional Warranty - 1 year
Additional Warranty - 2 years
Additional Warranty - 3 years
Additional Warranty - 4 years
Lifetime Warranty - 15 years STA122 Selection W1 • • • • • • W2 • W3 b W4 WL

Approval Type	Loc	cation or Classification	Selection														
ous location approvals			9X	•	•	•	•	•	•	•	•	•					
Explosion Proof																	
Dust-Ignitionproof			1C	١.		١.											
			'Ŭ														
Intrinsically Safe	Class I, II, III,																
Intrinsically Safe, Zone 0		Ex ia IIC T4 (Ta = -50° C to $+93^{\circ}$ C); T5 (Ta = -50° C to $+85^{\circ}$ C); T6 (Ta = -50° C to $+70^{\circ}$ C) Enclosure IP 66/67	38					•					•	•	•		
Intrinsically Safe, Zone 1	€ ⊗ II 2 G	Ex ia IIC T4 (Ta = -50° C to $+93^{\circ}$ C); T5 (Ta = -50° C to $+85^{\circ}$ C); T6 (Ta = -50° C to $+70^{\circ}$ C) Enclosure IP 66/67	55	•	•		•		•								
Dust-tight Enclosure, Zone 0	®II 1 D	Ex tD A20 IP6X T95°C (at Ta = 93°C) or T80°C (at Ta = 78°C) Enclosure IP 66/67															
Flameproof and Dust- tight Enclosure, Zone 1	Œ∕II 2 GD	Ex d IIC T5 (Ta = -40° C to $+93^{\circ}$ C), T6 (Ta = -40° C to $+78^{\circ}$ C) Supply 11- 42Vdc Ex tD A21 IP6X T95°C (at Ta = 93° C) or T80°C (at Ta = 78° C) Enclosure IP 66/67	33	24	24	24	24	24	24	24	24	24					
Non-Sparking, Zone 2	€ ⊗II 3 G	Ex nA, IIC T5 (Ta = -40°C to +93°C), T6 (Ta = -40°C to +78°C); Zone 2 Supply < 42Vdc, 23mA Ex tD A22 IP6X T95°C (at Ta = 93°C) or T80°C (at Ta = 78°C) (Honeywell). Enclosure IP 66/67	3N	•	•	•	•	•	•	•	•	•					
Multiple Marking ¹¹	© II 1 GD	Ex ia IIC T4 (Ta = -50°C to +93°C); T5 (Ta = -50°C to +85°C); T6 (Ta = -50°C to +70°C); Ui = 30V; Ii = 100mA Ex tD A20 IP6X T95°C (at Ta = 93°C) or T80°C (at Ta = 78°C)															
and Dust-tight Enclosure,	€xII2GD	Ex d IIC T5 (Ta = -40° C to $+93^{\circ}$ C), T6 (Ta = -40° C to $+78^{\circ}$ C) Supply 11- 42Vdc Ex tD A21 IP6X T95°C (at Ta = 93° C) or T80°C (at Ta = 78° C)	3C	24	24	24	24	24	24	24	24	24					
		Ex nA, IIC T5 (Ta = -40° C to $+93^{\circ}$ C), T6 (Ta = -40° C to $+78^{\circ}$ C); Zone 2 Supply < 42 Vdc, 23 mA Ex tD A22 IP6X T95°C (at Ta = 93° C) or T80°C (at Ta = 78° C) (Honeywell) Enclosure IP 66/67															
	Dust-Ignition proof Dust-Ignition proof Non-Incendive Intrinsically Safe Intrinsically Safe, Zone 0 Intrinsically Safe, Zone 1 Dust-tight Enclosure, Zone 0 Flameproof and Dust-tight Enclosure, Zone 1 Non-Sparking, Zone 2 Multiple Marking 11 Int. Safe, Zone 0/1 and Dust-tight Enclosure, or Flameproof, Zone 1 and Dust-tight Enclosure, or	Dust-Ignition approvals Explosion Proof	Dust-light Enclosure, Zone 1	Security Security	Dust-light Enclosure, Zone 1 Dust-light Enclosure, Zone 2 Ex nA, IIC	Second part Second part	Dust-tight Enclosure, Zone 1 Sex Low Lo	September Sep	Dust-light Enclosure, Zone 1 Sex Se	Sex Sex	Dust-light Enclosure, Zone 0 Dust-light Enclosure, Zone 2 Ex July 2 Dust-light Enclosure, Zone 2 Ex July 2 Ex Jul	Dust-light Enclosure, Zone 0 Tabro Tabr	Dust-light Enclosure, Zone 1 Dust-light Enclosure, Zone 2 Explosion Proof Class II, III Div. 1, Groups A.B.C.D				

TABLE III - (OPTIONS (continued)		STG170 STG140 STA140 STA122		1						- S1	Γ Α 14	IL/17L, STG17I - STG19L - STA12L
Approval Body	Approval Type	Location or Classification	Selection]↓		↓	$ \downarrow$	$\left \downarrow \right $	$ \downarrow$	$ \downarrow$	$ \downarrow$	$ \downarrow$	
Canadian	Explosion Proof	Class I, Div. 1, Groups B,C,D											1
Standards Association	Dust-Ignitionproof	Class II, III, Div. 1, Groups E,F,G	2J	24	24	24	24	24	24	24	4	24	
(CSA)	Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G											
IECEx	Flameproof, Zone 1	Ex d IIC; T5 (Ta = -40 to +93°C), T6 (Ta = -40 to +78°C) Ex ia IIC; T3, T4, T5, T6	CA	24	24	24	24	24	24	24	24	1 24	
	Intrinsically Safe, Zone 0/1	See Spec for detailed temperature codes by Communications option											
	Intrinsically Safe, Zone 0/1	Ex ia IIC T4, T5, T6	Z2	•	•	•	•	•	•	•	•	•]] b
SAEx	Flameproof, Zone 1	EX d IIC T5, T6 Enclosure IP 66/67	ZD	•	•	•	•	•	•	•	•	•]
(South Africa)	Multiple Marking ¹¹ Int. Safe, Zone 0/1, or Flameproof, Zone 1	Ex ia IIC T4, T5, T6 Ex d IIC T5, T6 Fnclosure IP 66/67	ZA	•	•	•	•	•	•	•	•	•	
CERTUSP	Flameproof, Zone 1	BR- Ex d IIC T5, T6	6D	•	•	•	•	•	•	•	•	•]
INMETRO (Brazil)	Intrinsically Safe, Zone 0/1	BR- Ex ia IIC; T4, T5, T6 (See CERTUSP certificate for detailed temperature codes by	6S	•	•	•	•	•	•	•	•	•	

STG180 -

STG14L

Zone 0/1

¹¹ The user must determine the type of protection required for installation of the equipment. The user shall then check the box [$\sqrt{\ }$] adjacent to the type of protection used on the equipment certification nameplate. Once a type of protection has been checked on the nameplate, subsequently the equipment shall not be reinstalled using any of the other certification types.

TABLE IV	Selection									
Factory Identification	XXXX •	•	•	•	•	•	•	•	•	l

RESTRICTIONS

Restriction		Available Only With		Not Available With
Letter	Table	Selection	Table	Selection
b		Select only one option from this group		
d		A, E SM		
е	III	SM		
f			III	2J
g			III	SL
h		_2_		
i	III	1C or 2J		
m			III	STA12L, STA14L, ME, FF
n			III	1C, 2J
0	III	CR		== 1107
р	III	HC or H6 <u>and</u> WP	III	FF, WX
r	III	FISCO/FNICO compliance available only with 1C	III	TC, ME, or FISCO/FNICO compliance not available 2J, 3C, 3N, 33, 3S, CA, Z2, ZD, ZA, 6D & 6S
w		E _ G, F _ G, G _ G		
х	III	FF, SM	Key#	STA12L, STA14L
z			ı	B, F, J
2	III	MX, SX	III	FB, MB, SB
4	=	This approval code <u>requires</u> the selection of a certified conduit plug: A5, A6 or A7	III	No CRN Number available
15			Ш	FF
19			III	F7, FG
21	111	FF		
22	III	SL		
24	III	This approval code <u>requires</u> the selection of a certified conduit plug: A5, A6 or A7		

Ordering Example: STG140-A1A-00000-HC,NE,3H+XXXX

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Communications option) See ATEX installation requirements in the ST 3000 User's Manual