

# ST3000 Series 900 Electric Pressure Transmitter

Issued : Jun. 15, 2001	Page : 1-1-7
Effective : Jul. 1, 2005	UNIT : 1000YEN

## Model STG940 (Low Gage Pressure)

Model No. : STG940 - I II III - 00000 - Option I - Option II  
Basic Model No.

Measuring Span	35 to 3500kPa(0.35 to 35kgf/cm2)	STG940
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Selection I				Code	Price	Material Code													
I	Material	Meter Body Cover	Adapter Flange	Vent/Drain Plugs	Wetted Parts of Center Body		A	B	D	E	F	H	U	M	P	8	9		
		Carbon steel	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	A	305												
Carbon steel	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	B	346														
Carbon steel	SCS14A*1	SUS316	Diaphragm : Tantalum Others : Tantalum	D	401														
SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	E	305														
SCS14A*1	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	F	341														
SCS14A*1	SCS14A*1	SUS316	Diaphragm : Tantalum Others : Tantalum	H	404														
SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316L	U	404														
PVC	PVC	PVC	Diaphragm : Hastelloy C Others : Hastelloy C *8	M	353														
PVC	PVC	PVC	Diaphragm : Tantalum Others : Tantalum *8	P	416														
II	Fill Fluid	Regular type (Silicone oil)			1	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		For oxygen service (Fluorine oil) *3			2	18													
		For chlorine service (Fluorine oil) *3			5	18													
III	Process Connection	Front Connection	Rc1/2 with adapter flange		L	3	✓	✓	✓	✓									
			1/2NPT internal thread with adapter flange		G	3	✓	✓	✓	✓									
			Rc1/4 with adapter flange		D	3	✓	✓	✓	✓									
			1/4NPT internal thread with adapter flange		A	3	✓	✓	✓	✓									
			1/4NPT internal thread on head		B	0	✓	✓	✓	✓									
			Rc1/2 with adapter flange *7		Q	13					✓	✓	✓	✓					
	Top or Bottom Connection	1/2NPT internal thread with adapter flange *7		R	13					✓	✓	✓	✓						
		Rc1/4 with adapter flange *7		S	13						✓	✓	✓	✓					
		1/4NPT internal thread with adapter flange *7		T	13							✓	✓	✓	✓				
		1/4NPT internal thread on head *7		U	0								✓	✓	✓	✓			
				-															
				00000															
Options I		No options			X	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Lightning arrester			L	17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Built-in indicating smart meter(0 to 100% liner scales)			P	20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Built-in indicating smart meter(engineering unit scales)			R	30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		SUS304 Bolt and nuts material			W	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		SUS630 Bolt and nuts material			U	35	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Corrosion-resistant finish			A	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Corrosion-proof finish			B	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Corrosion-resistant finish, silver paint			D	16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Oil Free finish			K	10					✓	✓	✓	✓	✓	✓	✓		
		Long Vent/drain plugs			J	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		FM Explosionproof			3	8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		FM Intrinsically safe			4	8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Combination of FM Explosionproof and Intrinsically safe			5	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		ATEX Flameproof			6	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		ATEX Intrinsic safety			7	8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		CSA Explosion-proof			8	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Options II		No option			XX	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Burn-out feature (Lower limit of value at abnormal condition) *2			A4	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Burn-out feature (Upper limit of value at abnormal condition) *2			A5	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Water free finish (with Oil free finish)			A7	17					✓	✓	✓	✓	✓	✓	✓		
		NEPSI Flameproof			C1	8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		NEPSI Intrinsically safe			C2	8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Combination of NEPSI Flameproof and Intrinsically safe			C3	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Custom calibration			C7	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Digital output *38			D5	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		HART communication *38			D7	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		One Elbow			E1	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Two Elbows			E2	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		External zero/span adjustment			E5	30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Mounting bracket			E9	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Side vent/drain top			F1	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Side vent/drain bottom			F2	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Material certificate			H2	21	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		SI unit			U1	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

\*1 SCS14A (Equivalent SUS316) or SUSF316

\*2 The output current value ranges from 3.0 to 3.8 mA for the lower limit and from 20.8 to 21.8 mA for the upper limit.

\*3 In case "For oxygen or chlorine (Fluorine oil) service" is used, "oil free finish - code K" must be selected.

\*7 Applicable for wetted parts of center body material ;Tantalum,SUS316L

\*8 SUS304 bolts and nuts material (-W) must be selected when PVC meterbody cover is selected (-M or -P).The max. working pressure is 1.5MPa.

\*38 Either one of "Digital output - code D5" or "HART communication -code D7" can be selected at a time.

# ST3000 Series 900 Electric Pressure Transmitter

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## Model STG960 (Medium Gage Pressure)

Model No. : STG960 - I II III - 00000 - Option I - Option II

Basic Model No.

Measuring Span	0.7 to 14MPa(7 to 140kgf/cm2)	STG960
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Selection I		Code	Price	Material Code																		
I	Material			A	B	D	E	F	H	U	8	9										
	Meter Body Cover Adapter Flange Vent/Drain Plugs Wetted Parts of Center Body	Carbon steel SCS14A*1 SUS316 Diaphragm:SUS316L Others : SUS316	A	305																		
		Carbon steel SCS14A*1 SUS316 Diaphragm : Hastelloy C Others : Hastelloy C	B	346																		
		Carbon steel SCS14A*1 SUS316 Diaphragm : Tantalum Others : Tantalum	D	401																		
		SCS14A*1 SCS14A*1 SUS316 Diaphragm:SUS316L Others : SUS316	E	305																		
		SCS14A*1 SCS14A*1 SUS316 Diaphragm : Hastelloy C Others : Hastelloy C	F	341																		
		SCS14A*1 SCS14A*1 SUS316 Diaphragm : Tantalum Others : Tantalum	H	404																		
		SCS14A*1 SCS14A*1 SUS316 Diaphragm:SUS316L Others : SUS316L	U	404																		
		II	Fill Fluid	Regular type (Silicone oil)	1	0																
		For oxygen service (Fluorine oil) *3	2	18																		
		For chlorine service (Fluorine oil) *3	5	18																		
III	Process Connection	Front Connection	Rc1/2 with adapter flange	L	3																	
			1/2NPT internal thread with adapter flange	G	3																	
			Rc1/4 with adapter flange	D	3																	
			1/4NPT internal thread with adapter flange	A	3																	
			1/4NPT internal thread on head	B	0																	
			Rc1/2 with adapter flange *7	Q	13																	
	Top or Bottom Connection		1/2NPT internal thread with adapter flange *7	R	13																	
			Rc1/4 with adapter flange *7	S	13																	
			1/4NPT internal thread with adapter flange *7	T	13																	
			1/4NPT internal thread on head *7	U	0																	
			-	-																		
			-	00000																		
Options I		No options	X	0																		
		Lightning arrester	L	17																		
		Built-in indicating smart meter(0 to 100% liner scales)	P	20																		
		Built-in indicating smart meter(engineering unit scales)	R	30																		
		SUS304 Bolt and nuts material *11	W	11																		
		SUS630 Bolt and nuts material	U	35																		
		Corrosion-resistant finish	A	11																		
		Corrosion-proof finish	B	14																		
		Corrosion-resistant finish, silver paint	D	16																		
		Oil Free finish	K	10																		
		Long Vent/drain plugs	J	5																		
		FM Explosionproof	3	8																		
		FM Intrinsically safe	4	8																		
		Combination of FM Explosionproof and Intrinsically safe	5	11																		
		ATEX Flameproof	6	7																		
ATEX Intrinsic safety	7	8																				
CSA Explosion-proof	8	7																				
Options II		No option	XX	0																		
		Burn-out feature (Lower limit of value at abnormal condition) *2	A4	7																		
		Burn-out feature (Upper limit of value at abnormal condition) *2	A5	7																		
		Water free finish (with Oil free finish)	A7	17																		
		NEPSI Flameproof	C1	8																		
		NEPSI Intrinsically safe	C2	8																		
		Combination of NEPSI Flameproof and Intrinsically safe	C3	11																		
		Custom calibration	C7	5																		
		Digital output *38	D5	0																		
		HART communication *38	D7	5																		
		One Elbow	E1	2																		
		Two Elbows	E2	4																		
		External zero/span adjustment	E5	30																		
		Mounting bracket	E9	2																		
		Side vent/drain top	F1	4																		
		Side vent/drain bottom	F2	4																		
		Material certificate	H2	21																		
		SI unit	U1	5																		

\*1 SCS14A (Equivalent SUS316) or SUS316

\*2 The output current value ranges from 3.0 to 3.8 mA for the lower limit and from 20.8 to 21.8 mA for the upper limit.

\*3 In case "For oxygen or chlorine (Fluorine oil) service" is used, "oil free finish - code K" must be selected.

\*7 Applicable for wetted parts of center body material ;Tantalum,SUS316L

\*11 When SUS304 bolt/nut is selected, max working pressure rating is 7MPa(70kgf/cm2).

\*38 Either one of "Digital output - code D5" or "HART communication -code D7" can be selected at a time.

# ST3000 Series 900 Electric Pressure Transmitter

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## Model STG981 (High Gage Pressure)

Model No. : STG981 - I II III - 00000 - Option I - Option II

Basic Model No.

Measuring Span	0.7 to 42MPa(7 to 420kgf/cm2)	STG981
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Selection I			Code	Price	Material Code							
I	Material	Meter Body Cover	Vent/Drain Plugs	Wetted Parts of Center Body		A	B	E	F	8	9	
		Carbon steel	SUS316	Diaphragm:SUS316L Others : SUS316	A	315						
		Carbon steel	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	B	356						
		SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	E	305						
		SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	F	341						
II	Fill Fluid	Regular type (Silicone oil)		1	0							
		For oxygen service (Fluorine oil) *3		2	18							
III	Process Connection	Top or Bottom Connection	Rc1/4	S	10							
			1/4NPT internal thread	T	10							
				-								
				00000								
Options I			No options	X	0							
			Lightning arrester	L	17							
			Built-in indicating smart meter(0 to 100% liner scales)	P	20							
			Built-in indicating smart meter(engineering unit scales)	R	30							
			SUS304 Bolt and nuts material *12	W	11							
			SUS630 Bolt and nuts material	U	60							
			Corrosion-resistant finish	A	11							
			Corrosion-proof finish	B	14							
			Corrosion-resistant finish, silver paint	D	16							
			Oil Free finish	K	10							
			Long Vent/drain plugs	J	5							
			FM Explosionproof	3	8							
			FM Intrinsically safe	4	8							
			Combination of FM Explosionproof and Intrinsically safe	5	11							
			ATEX Flameproof	6	7							
			ATEX Intrinsic safety	7	8							
			CSA Explosion-proof	8	7							
Options II			No option	XX	0							
			Burn-out feature (Lower limit of value at abnormal condition) *2	A4	7							
			Burn-out feature (Upper limit of value at abnormal condition) *2	A5	7							
			Water free finish (with Oil free finish)	A7	17							
			NEPSI Flameproof	C1	8							
			NEPSI Intrinsically safe	C2	8							
			Combination of NEPSI Flameproof and Intrinsically safe	C3	11							
			Custom calibration	C7	5							
			Digital output *38	D5	0							
			HART communication *38	D7	5							
			One Elbow	E1	2							
			Two Elbows	E2	4							
			External zero/span adjustment	E5	30							
			Mounting bracket	E9	2							
			PED (97/23/EC) Conformity *34	H1	40							
			Material certificate	H2	21							
			Max working pressure 20MPa	H3	0							
			SI unit	U1	5							

\*1 SCS14A (Equivalent SUS316) or SUS316

\*2 The output current value ranges from 3.0 to 3.8 mA for the lower limit and from 20.8 to 21.8 mA for the upper limit.

\*3 In case "For oxygen or chlorine (Fluorine oil) service" is used, it's recommended to select "oil free finish - code K"

\*12 When SUS304 bolt/nut is selected, max working pressure rating is 23MPa(230kgf/cm2).

\*34 "PED Conformity" is not applicable for the combination with FM, CSA or NEPSI approvals.

\*38 Either one of "Digital output - code D5" or "HART communication -code D7" can be selected at a time.