

# ST3000 Series 900 Electric Pressure Transmitter

Issued : Jun. 15, 2001	Page : 1-1-7
Effective : Nov. 1, 2003	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	300											
Carbon steel	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	B	341													
Carbon steel	SCS14A*1	SUS316	Diaphragm : Tantalum Others : Tantalum	D	396													
SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	E	315													
SCS14A*1	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	F	351													
SCS14A*1	SCS14A*1	SUS316	Diaphragm : Tantalum Others : Tantalum	H	414													
SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316L	U	414													
PVC	PVC	PVC	Diaphragm : Hastelloy C Others : Hastelloy C *8	M	353													
PVC	PVC	PVC	Diaphragm : Tantalum Others : Tantalum *8	P	416													
Carbon steel Ni plating	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	8	387													
Carbon steel Ni plating	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	9	300													
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	✓	✓		✓	✓						✓	✓	
	Top or Bottom Connection		Rc1/2 with adapter flange *7	Q	13			✓		✓	✓	✓	✓	✓				
			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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Custom calibration	C7	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Digital output *38	D5	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	HART communication *5 *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.

\*5 Intrinsically safe for NEPSI cannot be selected with -D7.

\*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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Effective : Nov. 1, 2003	UNIT : 1000YEN

## 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	Meter Body Cover	Adapter Flange	Vent/Drain Plugs	Wetted Parts of Center Body		A	B	D	E	F	H	U	8	9		
		Carbon steel	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	A	300										
		Carbon steel	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	B	341										
		Carbon steel	SCS14A*1	SUS316	Diaphragm : Tantalum Others : Tantalum	D	396										
		SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	E	315										
		SCS14A*1	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	F	351										
		SCS14A*1	SCS14A*1	SUS316	Diaphragm : Tantalum Others : Tantalum	H	414										
		SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316L	U	414										
		Carbon steel Ni plating	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	8	387										
		Carbon steel Ni plating	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	9	300										
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											
		Top or Bottom Connection	Rc1/2 with adapter flange *7		Q	13											
			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														
	Custom calibration	C7	5														
	Digital output *38	D5	0														
	HART communication *5 *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.

\*5 Intrinsically safe for NEPSI cannot be selected with -D7.

\*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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Effective : Nov. 1, 2003	UNIT : 1000YEN

## 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				A	B	E	F	8	9
	Meter Body Cover	Vent/Drain Plugs	Wetted Parts of Center Body							
	Carbon steel	SUS316	Diaphragm:SUS316L Others : SUS316	A	310					
	Carbon steel	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	B	351					
	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	E	315					
	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	F	351					
	Carbon steel Ni plating	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	8	397					
	Carbon steel Ni plating	SUS316	Diaphragm:SUS316L Others : SUS316	9	310					
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		Code	Price	A	B	E	F	8	9
	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		Code	Price	A	B	E	F	8	9
	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	✓	✓	✓	✓	✓	✓
	Custom calibration	C7	5	✓	✓	✓	✓	✓	✓
	Digital output *38	D5	0	✓	✓	✓	✓	✓	✓
	HART communication *5 *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 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, it's recommended to select "oil free finish - code K"

\*5 Intrinsically safe for NEPSI cannot be selected with -D7.

\*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.