

ST3000 Series 900
Electric Pressure Transmitter

Issued : Jun. 15, 2001	Page : 1-137
Effective : Mar. 1, 2003	UNIT : 1000YEN

Model STH920 / STH940 / STH960 (Remote-sealed Diaphragm type for Gauge Pressure)

Flush Diaphragm Type: 3 in. / 80 mm

For Regular / High-Temperature Service

Model No. : STH9x0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	2.5 to 100kPa (250 to 10,160mmHzO)	STH920	Flush Diaphragm Flange Type : 3in. / 80mm
	35 to 3500kPa(0.35 to 35kgf/cm ²)	STH940	
	0.7 to 10 MPa (7 to 102 kgf/cm ²)	STH960	

Selection I		Code	Price	Fill Fluid Code				
I	Fill Fluid	Moswl No.	Fill Fluid	1	2	3	5	
	Flush Diaphragm Flange Type 3in. (80mm)	STH920 STH940 STH960	Regular type service (Silicone oil)	1	433			
			For oxygen service (Fluorine oil) *3	2	495			
			For high-temperature service (Silicone oil)	3	495			
			For chlorine service (Fluorine oil) *3	5	495			
II	Flange Standard	ANSI flange	A	0	✓	✓	✓	✓
		JIS flange	J	0	✓	✓	✓	✓
		JPI flange	P	0	✓	✓	✓	✓
III	Flange Type & Rating	JIS 10K , ANSI/JPI 150 (RF)equivalent	A	0	✓	✓	✓	✓
		JIS 20K , ANSI/JPI 300 (RF)equivalent	B	10	✓	✓	✓	✓
		JIS 30K , ANSI/JPI 600 (RF)equivalent	C	15	✓	✓	✓	✓
IV	Flange Material	Carbon Steel	1	0	✓	✓	✓	✓
		SUS304	7	25	✓	✓	✓	✓
		SUS316	2	40	✓	✓	✓	✓
		SUS316L	8	50	✓	✓	✓	✓
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, othes : SUS316)	2	0	✓	✓	✓	
		SUS316L (Diaphragm :SUS316L, others : SUS316L)	8	25	✓	✓	✓	
		Tantalum (Diaphragm :Tantalum, others : Tantalum) *17	4	139	✓	✓	✓	✓
		HastelloyC (Diaphragm :HastelloyC, others : HastelloyC)	9	87	✓	✓	✓	
VI	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))	J	0	✓	✓	✓	✓
VII	Length of Extended Parts	Flush Diaphragm 3in. / 80mm	00	0	✓	✓	✓	✓
VIII	Length of Capillary Tube	2m	2	3	✓	✓	✓	✓
		3m	3	7	✓	✓	✓	✓
		4m	4	14	✓	✓	✓	✓
		5m	5	21	✓	✓	✓	✓
		6m	6	28	✓	✓	✓	✓
		7m	7	35	✓	✓	✓	✓
		8m	8	42	✓	✓	✓	✓
		9m	9	49	✓	✓	✓	✓
		10m	A	56	✓	✓	✓	✓
		Length of Capillary Tube with Olefin Coating	2m	B	18	✓	✓	✓
	3m		C	22	✓	✓	✓	✓
	4m		H	29	✓	✓	✓	✓
	5m		D	36	✓	✓	✓	✓
	6m		J	43	✓	✓	✓	✓
	7m		E	50	✓	✓	✓	✓
	8m		F	57	✓	✓	✓	✓
	9m		K	64	✓	✓	✓	✓
		10m	G	71	✓	✓	✓	✓

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Electric Pressure Transmitter

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Effective : Nov. 1, 2003	UNIT : 1000YEN

Model STH920 / STH940 / STH960 (Remote-sealed DiaphragmType)

Flush Diaphragm Type: 3 in. / 80 mm

For Regular / High-Temperature Service

Model No. : STH9x0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	2.5 to 100kPa (250 to 10,160mmHzO)	STH920	Flush Diaphragm Flange Type : 3in. / 80mm
	35 to 3500kPa (0.35 to 35kgf/cm ²)	STH940	
	0.7 to 10 MPa (7 to 102 kgf/cm ²)	STH960	

	Code	Price	Fill Fluid Code				
			1	2	3	5	
	-						
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	10	✓	✓	✓	✓
	SUS630 Bolt and nuts material	U	20	✓	✓	✓	✓
	Corrosion-resistant finish	A	11	✓	✓	✓	✓
	Corrosion-proof finish	B	14	✓	✓	✓	✓
	Corrosion-resistant finish, silver paint	D	16	✓	✓	✓	✓
	Oil Free finish	K	10	✓	✓	✓	✓
	FEP protective Film	T	11	✓	✓		✓
	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	✓	✓	✓	✓
	0.1mm Thickness Diaphragm *15	F4	30	✓	✓	✓	✓
	Material certificate	H2	21	✓	✓	✓	✓
SI unit	U1	5	✓	✓	✓	✓	

*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.

*15 Only available for Material of Wetted parts : "SUS316" and "SUS316L".

*17 In case "Tantalum " is used for diaphragm material and in case of "For high-temperature service", normal operating conditions of meter body (process fluid) temperature is -10 to +180deg.C

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

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Model STH940/STH960 (Remote-sealed DiaphragmType)

Flush Diaphragm 2 in./50 mm, 1.5 in./40 mm

For Regular / High-Temperature Service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	35 to 3500kPa(0.35 to 35kgf/cm ²)	STH940	Flush Diaphragm Flange Type : 2in./50mm, 1.5in./40mm
	0.7 to 10MPa (7 to 102 kgf/cm ²)	STH960	

	Code	Price	Fill Fluid Code				
			1	2	3	5	
	-						
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	10	✓	✓	✓	✓
	SUS630 Bolt and nuts material	U	20	✓	✓	✓	✓
	Corrosion-resistant finish	A	11	✓	✓	✓	✓
	Corrosion-proof finish	B	14	✓	✓	✓	✓
	Corrosion-resistant finish, silver paint	D	16	✓	✓	✓	✓
	Oil Free finish	K	10	✓	✓	✓	✓
	FEP protective Film	T	11	✓	✓		✓
	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 Flameproof	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	✓	✓	✓	✓
	Material certificate	H2	21	✓	✓	✓	✓
	SI unit	U1	5	✓	✓	✓	✓

*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.

*17 In case "Tantalum " is used for diaphragm material and in case of "For high-temperature service", normal operating conditions of meter body (process fluid) temperature is -10 to +180deg.C

*27 In case "Tantalum" is used for diaphragm material and flange size is 1.5in., fill fluid "For high-temperature service" is not applicable and only 2m and 3 m are available for capillary length.

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

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Model STH920/STH940/STH960 (Remote-sealed DiaphragmType)

Extended Diaphragm 4 in./100 mm

For Regular / High-Temperature Service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring span	2.5 to 100kPa (250 to 10,160mmHzO)	STH920	Extended Diaphragm Flange Type : 4in./100mm
	35 to 3,500 kPa (0.35 to 35 kgf/cm ²)	STH940	
	0.7 to 10MPa(7 to 102kgf/cm ²)	STH960	

Selection I			Code	Price	Fill Fluid Code		
I	Fill Fluid	Model No.	Fill Fluid		1	2	3
		STH920	Regular type service (Silicone oil)	1	433		
		STH940					
		STH960	For oxygen service (Fluorine oil) *3	2	495		
	Extended Diaphragm Flange Type 4 in. / 100 mm		For high-temperature service (Silicone oil) *19 *20	3	495		
II	Flange Standard	ANSI flange		A	0	✓	✓
		JIS flange		J	0	✓	✓
		JPI flange		P	0	✓	✓
III	Flange Type & Rating	JIS 10K , ANSI/JPI 150 (RF)equivalent		A	0	✓	✓
		JIS 20K , ANSI/JPI 300 (RF)equivalent *19		B	10	✓	✓
		JIS 30K *16 *20		C	15	✓	✓
IV	Flange Material	Carbon Steel		1	0	✓	✓
		SUS304		7	25	✓	✓
		SUS316		2	40	✓	✓
		SUS316L *16 *20		8	50	✓	✓
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, othes : SUS316)		2	0	✓	✓
		SUS316L (Diaphragm :SUS316L, others : SUS316L) *16 *19 *20		8	25	✓	✓
VI	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))		J	0	✓	✓
VII	Length of Extended Parts	L = 50mm (4in. / 100mm) *20		09	62	✓	✓
		L = 100mm (4in. / 100mm) *20		14	68	✓	✓
		L = 150mm (4in. / 100mm) *16 *20		19	75	✓	✓
		L = 200mm (4in. / 100mm) *16 *20		24	83	✓	✓
		L = 250mm (4in. / 100mm) *16 *19 *20		29	93	✓	✓
		L = 300mm (4in. / 100mm) *16 *19 *20		34	103	✓	✓
VIII	Length of Capillary Tube	2m		2	3	✓	✓
		3m		3	7	✓	✓
		4m		4	14	✓	✓
		5m		5	21	✓	✓
		6m		6	28	✓	✓
		7m		7	35	✓	✓
		8m		8	42	✓	✓
		9m		9	49	✓	✓
		10m		A	56	✓	✓
	Length of Capillary Tube with Olefin Coating	2m		B	18	✓	✓
		3m		C	22	✓	✓
		4m		H	29	✓	✓
		5m		D	36	✓	✓
		6m		J	43	✓	✓
		7m		E	50	✓	✓
		8m		F	57	✓	✓
		9m		K	64	✓	✓
		10m		G	71	✓	✓

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Electric Pressure Transmitter

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Model STH920/STH940/STH960 (Remote-sealed DiaphragmType)
Extended Diaphragm 4 in./100 mm
For Regular / High-Temperature Service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	2.5 to 100kPa (250 to 10,160mmHzO)	STH920	Extended Diaphragm Flange Type : 4in./100mm
	35 to 3,500 kPa (0.35 to 35 kgf/cm ²)	STH940	
	0.7 to 10MPa(7 to 102kgf/cm ²)	STH960	

		Code	Price	Fill Fluid Code		
				1	2	3
		-				
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	10	✓	✓	✓
	SUS630 Bolt and nuts material	U	20	✓	✓	✓
	Corrosion-resistant finish	A	11	✓	✓	✓
	Corrosion-proof finish	B	14	✓	✓	✓
	Corrosion-resistant finish, silver paint	D	16	✓	✓	✓
	Oil Free finish	K	10	✓	✓	✓
	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	✓	✓	✓
	0.1mm Thickness Diaphragm	F4	30	✓	✓	✓
	Material certificate	H2	21	✓	✓	✓
SI unit	U1	5	✓	✓	✓	

*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.

*16 In case "JIS30K" is used for Flange type and rating, "SUS316L" is used for Flange Material and for regular service or oxygen service, not available for length of extended parts: 150/200/250/300mm.

*19 In case Fill Fluid: For high-temperature service and Flange rating: ANSI300 and wetted parts material: SUS316L, Extension length of Flange 250/300mm are not available.

*20 In case Flange Rating: JIS30K and Wetted Parts material: SUS316L, and for high temperature service, Extended diaphragm type is not available.

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

ST3000 Series 900
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Model STH940/STH960 (Remote-sealed DiaphragmType)
Extended Diaphragm 3 in./80 mm, 2 in./50 mm
For Regular / High-Temperature Service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span		35 to 3500kPa (0.35 to 35kgf/cm ²)	STH940	Extended Diaphragm Flange Type : 3in./80mm, 2in./50mm			
		0.7 to 10 MPa (7 to 102 kgf/cm ²)	STH960				
Selection I			Code	Price	Fill Fluid Code		
I	Fill Fluid	Model No.			1	2	3
		STH940	Regular type service (Silicone oil)	1	433		
		STH960	For oxygen service (Fluorine oil) *3	2	495		
		Extended Diaphragm Flange Type 3in.(80mm) 2in.(50mm)	For high-temperature service (Silicone oil) *31	3	495		
II	Flange Standard	ANSI flange	A	0	✓	✓	✓
		JIS flange	J	0	✓	✓	✓
		JPI flange	P	0	✓	✓	✓
III	Flange Type & Rating	JIS 10K , ANSI/JPI 150 (RF) equivalent	A	0	✓	✓	✓
		JIS 20K , ANSI/JPI 300 (RF) equivalent	B	10	✓	✓	✓
		JIS 30K , ANSI/JPI 600 (RF) equivalent *24 *31	C	15	✓	✓	✓
IV	Flange Material	Carbon Steel	1	0	✓	✓	✓
		SUS304	7	25	✓	✓	✓
		SUS316	2	40	✓	✓	✓
		SUS316L	8	50	✓	✓	✓
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, others : SUS316)	2	0	✓	✓	✓
		SUS316L (Diaphragm :SUS316L, others : SUS316L) *31	8	25	✓	✓	✓
VI	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))	J	0	✓	✓	✓
VII	Length of Extended Parts	L = 50mm (3in. /80mm) *24	05	62	✓	✓	✓
		L = 100mm (3in. /80mm) *24	10	68	✓	✓	✓
		L = 150mm (3in. /80mm) *24	15	75	✓	✓	✓
		L = 200mm (3in. /80mm) *24	20	83	✓	✓	✓
		L = 250mm (3in. /80mm) *24	25	93	✓	✓	✓
		L = 300mm (3in. /80mm) *24	30	103	✓	✓	✓
		L = 50mm (2in. / 50mm) *24	06	62	✓	✓	✓
		L = 100mm (2in. / 50mm) *24	11	68	✓	✓	✓
		L = 150mm (2in. / 50mm) *24	16	75	✓	✓	✓
		L = 200mm (2in. / 50mm) *24 *31	21	83	✓	✓	✓
		L = 250mm (2in. / 50mm) *24 *31	26	93	✓	✓	✓
		L = 300mm (2in. / 50mm) *24 *31	31	103	✓	✓	✓
		VIII	Length of Capillary Tube	2m	2	3	✓
3m	3			7	✓	✓	✓
4m	4			14	✓	✓	✓
5m	5			21	✓	✓	✓
Length of Capillary Tube with Olefin Coating	2m			B	18	✓	✓
	3m		C	22	✓	✓	✓
	4m		H	29	✓	✓	✓
	5m		D	36	✓	✓	✓

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Model STH940/STH960 (Remote-sealed DiaphragmType)
Extended Diaphragm 3 in./80 mm, 2 in./50 mm
For Regular / High-Temperature Service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	35 to 3500kPa (0.35 to 35kgf/cm ²)	STH940	Extended Diaphragm Type : 3in./80mm, 2in./50mm
	0.7 to 10 MPa (7 to 102 kgf/cm ²)	STH960	

		Code	Price	Fill Fluid Code		
				1	2	3
	-					
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	10	✓	✓	✓
	SUS630 Bolt and nuts material	U	20	✓	✓	✓
	Corrosion-resistant finish	A	11	✓	✓	✓
	Corrosion-proof finish	B	14	✓	✓	✓
	Corrosion-resistant finish, silver paint	D	16	✓	✓	✓
	Oil Free finish	K	10	✓	✓	✓
	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	✓	✓	✓
	Material certificate	H2	21	✓	✓	✓
	SI unit	U1	5	✓	✓	✓

*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.

*24 In case of "ANSI/JPI600" is used for 3in. Flange type and rating, not available for the extended diaphragm flange type

*31 In case Fill Fluid: For high-temperature service, for high-temperature vacuum service or high-temperature high vacuum service and 2 in. Flange Rating: ANSI/JPI600 and Wetted Parts material: SUS316L, Extension length of Flange 200/250/300mm are not available.

*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 : Mar. 1, 2003	UNIT : 1000YEN

Model STH940 / STH960 (Remote-sealed Diaphragm Type for Gauge Pressure)
Flush Diaphragm 3 in./80 mm
For High-Temperature/Vacuum, High-Temperature/High-Vacuum service

Model No. : STH9x0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

	Measuring Span	35 to 3500kPa(0.35 to 35kgf/cm ²)	STH940	Flush Diaphragm Type : 3in. / 80mm
		0.7 to 10 MPa (7 to 102 kgf/cm ²)	STH960	

Selection I			Code	Price		
I	Fill Fluid	Moswl No.	Fill Fluid			4 7
		STH940 STH960 Flush Diaphragm Flange Type 3in. (80mm)	For high-temperature vacuum service (Silicone oil) For high-temperature high vacuum service (Silicone oil)	4 7	729 1,155	
II	Flange Standard	ANSI flange		A	0	✓ ✓
		JIS flange		J	0	✓ ✓
		JPI flange		P	0	✓ ✓
III	Flange Type & Rating	JIS 10K , ANSI/JPI 150 (RF)equivalent		A	0	✓ ✓
		JIS 20K , ANSI/JPI 300 (RF)equivalent		B	10	✓ ✓
		JIS 30K , ANSI/JPI 600 (RF)equivalent		C	15	✓ ✓
IV	Flange Material	Carbon Steel		1	0	✓ ✓
		SUS304		7	25	✓ ✓
		SUS316		2	40	✓ ✓
		SUS316L		8	50	✓ ✓
V	Material of Wetted Parts	SUS316L (Diaphragm :SUS316L, others : SUS316L)		8	25	✓ ✓
		Tantalum (Diaphragm :Tantalum, others : Tantalum) *17		4	139	✓ ✓
		HastelloyC (Diaphragm :HastelloyC, others : HastelloyC)		9	87	✓ ✓
VI	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))		J	0	✓ ✓
VII	Length of Extended Parts	Flush Diaphragm 3in. / 80mm		00	0	✓ ✓
VIII	Length of Capillary Tube	2m		2	3	✓ ✓
		3m		3	7	✓ ✓
		4m		4	14	✓ ✓
		5m		5	21	✓ ✓
		6m		6	28	✓ ✓
		7m		7	35	✓ ✓
		8m		8	42	✓ ✓
		9m		9	49	✓ ✓
		10m		A	56	✓ ✓

ST3000 Series 900
Electric Pressure Transmitter

Issued : Jun. 15, 2001	Page : 1-1-46
Effective : Nov. 1, 2003	UNIT : 1000YEN

Model STH940 / STH960 (Remote-sealed Diaphragm Type for Gauge Pressure)

Flush Diaphragm 3 in./80 mm

For High-Temperature/Vacuum, High-Temperature/High-Vacuum service

Model No. : STH9x0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	35 to 3500kPa(0.35 to 35kgf/cm ²)	STH940	Flush Diaphragm Type : 3in. / 80mm
	0.7 to 10 MPa (7 to 102 kgf/cm ²)	STH960	

		Code	Price		
				4	7
		-			
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	10	✓	✓
	SUS630 Bolt and nuts material	U	20	✓	✓
	Corrosion-resistant finish	A	11	✓	✓
	Corrosion-proof finish	B	14	✓	✓
	Corrosion-resistant finish, silver paint	D	16	✓	✓
	Oil Free finish	K	10	✓	✓
	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	✓	✓
	Material certificate	H2	21	✓	✓
	SI unit	U1	5	✓	✓

*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.

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

*17 In case "Tantalum " is used for diaphragm material, and in case of "For high-temperature service", normal operating conditions of meter body (process fluid) temperature is -10 to +180deg.C

*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

Issued : Jun. 15, 2001	Page : 1-147
Effective : Mar. 1, 2003	UNIT : 1000YEN

Model STH940/STH960 (Remote-sealed DiaphragmType)
Flush Diaphragm 2 in./50 mm, 1.5 in./40 mm
For High-Temperature/Vacuum, High-Temperature/High-Vacuum service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	35 to 3500kPa(0.35 to 35kgf/cm ²)	STH940	Flush Diaphragm Type : 2in./50mm, 1.5in./40mm
	0.7 to 10MPa (7 to 102 kgf/cm ²)	STH960	

Selection I			Code	Price	Fill Fluid		
I	Fill Fluid	Model No.	Fill Fluid		4	7	
		STH940	For high-temperature vacuum service (Silicone oil)	4	729		
		STH960	For high-temperature high-vacuum service (Silicone oil)	7	1,155		
II	Flange Standard	ANSI flange		A	0	✓	✓
		JIS flange		J	0	✓	✓
		JPI flange		P	0	✓	✓
III	Flange Type and Rating	JIS 10K , ANSI/JPI 150 (RF)equivalent		A	0	✓	✓
		JIS 20K , ANSI/JPI 300 (RF)equivalent		B	10	✓	✓
		JIS 30K , ANSI/JPI 600 (RF)equivalent		C	15	✓	✓
IV	Flange Material	Carbon Steel		1	0	✓	✓
		SUS304		7	25	✓	✓
		SUS316		2	40	✓	✓
		SUS316L		8	50	✓	✓
V	Material of Wetted Parts	SUS316L (Diaphragm :SUS316L, others : SUS316L)		8	25	✓	✓
		Tantalum (Diaphragm :Tantalum, others : Tantalum) *17		4	139	✓	✓
		HastelloyC (Diaphragm :HastelloyC, others : HastelloyC)		9	87	✓	✓
VI	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))		J	0	✓	✓
VII	Length of Extended Parts	Flush Diaphragm 2in. / 50mm		01	0	✓	✓
		Flush Diaphragm 1.5in. /40mm		02	0	✓	✓
VIII	Length of Capillary Tube	2m		2	3	✓	✓
		3m		3	7	✓	✓
		4m		4	14	✓	✓
		5m		5	21	✓	✓

ST3000 Series 900
Electric Pressure Transmitter

Issued : Jun. 15, 2001	Page : 1-1-48
Effective : Nov. 1, 2003	UNIT : 1000YEN

Model STH940/STH960 (Remote-sealed DiaphragmType)

Flush Diaphragm 2 in./50 mm, 1.5 in./40 mm

For High-Temperature/Vacuum, High-Temperature/High-Vacuum service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	35 to 3500kPa(0.35 to 35kgf/cm ²)	STH940	Flush Diaphragm Type : 2in./50mm, 1.5in./40mm
	0.7 to 10MPa (7 to 102 kgf/cm ²)	STH960	

		Code	Price	Fill Fluid	
				4	7
		-			
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	10	✓	✓
	SUS630 Bolt and nuts material	U	20	✓	✓
	Corrosion-resistant finish	A	11	✓	✓
	Corrosion-proof finish	B	14	✓	✓
	Corrosion-resistant finish, silver paint	D	16	✓	✓
	Oil Free finish	K	10	✓	✓
	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	✓	✓
	Material certificate	H2	21	✓	✓
	SI unit	U1	5	✓	✓

*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.

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

*17 In case "Tantalum " is used for diaphragm material, and in case of "For high-temperature service"
normal operating conditions of meter body (process fluid) temperature is -10 to +180deg.C

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

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Electric Pressure Transmitter

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Effective : Mar. 1, 2003	UNIT : 1000YEN

Model STH940/STH960 (Remote-sealed DiaphragmType)
Extended Diaphragm 4 in./100 mm
For High-Temperature/Vacuum, High-Temperature/High-Vacuum service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	35 to 3,500 kPa (0.35 to 35 kgf/cm ²)	STH940	Extended Diaphragm Type : 4in./100mm
	0.7 to 10MPa(7 to 102kgf/cm ²)	STH960	

Selection I			Code	Price		
I	Fill Fluid	Model No.			4	7
		Fill Fluid				
		STH940				
		STH960	4	729		
		Extended Diaphragm				
		Flange Type				
		4 in. / 100 mm	7	1,155		
II	Flange Standard	ANSI flange	A	0	✓	✓
		JIS flange	J	0	✓	✓
		JPI flange	P	0	✓	✓
III	Flange Type & Rating	JIS 10K , ANSI/JPI 150 (RF)equivalent	A	0	✓	✓
		JIS 20K , ANSI/JPI 300 (RF)equivalent *23	B	10	✓	✓
		JIS 30K , ANSI/JPI 600 (RF)equivalent *20 *24	C	15	✓	✓
IV	Flange Material	Carbon Steel	1	0	✓	✓
		SUS304	7	25	✓	✓
		SUS316	2	40	✓	✓
		SUS316L *20 *23	8	50	✓	✓
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, othes : SUS316)	2	0	✓	✓
		SUS316L (Diaphragm :SUS316L, others : SUS316L)	8	25	✓	✓
VI	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))	J	0	✓	✓
VII	Length of Extended Parts	L = 50mm (4in. / 100mm) *24	09	62	✓	✓
		L = 100mm (4in. / 100mm) *24	14	68	✓	✓
		L = 150mm (4in. / 100mm) *24	19	75	✓	✓
		L = 200mm (4in. / 100mm) *23 *24	24	83	✓	✓
		L = 250mm (4in. / 100mm) *23 *24	29	93	✓	✓
		L = 300mm (4in. / 100mm) *23 *24	34	103	✓	✓
VIII	Length of Capillary Tube	2m	2	3	✓	✓
		3m	3	7	✓	✓
		4m	4	14	✓	✓
		5m	5	21	✓	✓
		6m	6	28	✓	✓
		7m	7	35	✓	✓
		8m	8	42	✓	✓
		9m	9	49	✓	✓
		10m	A	56	✓	✓

ST3000 Series 900
Electric Pressure Transmitter

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Effective : Nov. 1, 2003	UNIT : 1000YEN

Model STH940/STH960 (Remote-sealed DiaphragmType)
Extended Diaphragm 4 in./100 mm
For High-Temperature/Vacuum, High-Temperature/High-Vacuum service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	35 to 3,500 kPa (0.35 to 35 kgf/cm ²)	STH940	Extended Diaphragm Type : 4in./100mm
	0.7 to 10MPa(7 to 102kgf/cm ²)	STH960	

		Code	Price	4	7
		-			
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	10	✓	✓
	SUS630 Bolt and nuts material	U	20	✓	✓
	Corrosion-resistant finish	A	11	✓	✓
	Corrosion-proof finish	B	14	✓	✓
	Corrosion-resistant finish, silver paint	D	16	✓	✓
	Oil Free finish	K	10	✓	✓
	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	✓	✓
	Material certificate	H2	21	✓	✓
SI unit	U1	5	✓	✓	

*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.

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

*20 In case Flange Rating: JIS30K, Wetted parts material: SUS316L and for high temperature service, Extended diaphragm type is not available.

*23 In case "ANSI/JPI300" is used for Flange Type & Rating , Not available for Length of Extended Parts : 200/250/300mm.

*24 In case "ANSI/JPI600" is used for 3in. Flange type and rating, not available for the extended diaphragm flange type.

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

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Electric Pressure Transmitter

Issued : Jun. 5, 2001	Page : 1-151
Effective : Mar. 1, 2003	UNIT : 1000YEN

Model STH940/STH960 (Remote-sealed DiaphragmType)
Extended Diaphragm 3 in./80 mm, 2 in./50 mm
For High-Temperature/Vacuum, High-Temperature/High-Vacuum service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	35 to 3500kPa (0.35 to 35kgf/cm ²)	STH940	Extended Diaphragm: 3in./80mm, 2in./50mm
	0.7 to 10 MPa (7 to 102 kgf/cm ²)	STH960	

Selection I			Code	Price	Fill Fluid		
I	Fill Fluid	Model No.	Fill Fluid			4	7
		STH940	For high-temperature vacuum service (Silicone oil)	4	729		
		STH960	For high-temperature high-vacuum service (Silicone oil)	7	1,155		
II	Flange Standard	ANSI flange		A	0	✓	✓
		JIS flange		J	0	✓	✓
		JPI flange		P	0	✓	✓
III	Flange Type & Rating	JIS 10K , ANSI/JPI 150 (RF) equivalent		A	0	✓	✓
		JIS 20K , ANSI/JPI 300 (RF) equivalent		B	10	✓	✓
		JIS 30K, equivalent *24 *32		C	15	✓	✓
IV	Flange Material	Carbon Steel		1	0	✓	✓
		SUS304		7	25	✓	✓
		SUS316		2	40	✓	✓
		SUS316L *32		8	50	✓	✓
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, others : SUS316)		2	0	✓	✓
		SUS316L (Diaphragm :SUS316L, others : SUS316L)		8	25	✓	✓
VI	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))		J	0	✓	✓
VII	Length of Extended Parts	L = 50mm (3in. /80mm) *24		05	62	✓	✓
		L = 100mm (3in. /80mm) *24		10	68	✓	✓
		L = 150mm (3in. /80mm) *24		15	75	✓	✓
		L = 50mm (2in. / 50mm) *24		06	62	✓	✓
		L = 100mm (2in. / 50mm) *24		11	68	✓	✓
		L = 150mm (2in. / 50mm) *24		16	75	✓	✓
VIII	Length of Capillary Tube	2m		2	3	✓	✓
		3m		3	7	✓	✓
		4m		4	14	✓	✓
		5m		5	21	✓	✓

ST3000 Series 900
Electric Pressure Transmitter

Issued : Jun. 15, 2001	Page : 1-1-52
Effective : Nov. 1, 2003	UNIT : 1000YEN

Model STH940/STH960 (Remote-sealed DiaphragmType)

Extended Diaphragm 3 in./80 mm, 2 in./50 mm

For High-Temperature/Vacuum, High-Temperature/High-Vacuum service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	35 to 3500kPa (0.35 to 35kgf/cm ²)	STH940	Extended Diaphragm: 3in./80mm, 2in./50mm
	0.7 to 10 MPa (7 to 102 kgf/cm ²)	STH960	

		Code	Price	4	7
		-			
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	10	✓	✓
	SUS630 Bolt and nuts material	U	20	✓	✓
	Corrosion-resistant finish	A	11	✓	✓
	Corrosion-proof finish	B	14	✓	✓
	Corrosion-resistant finish, silver paint	D	16	✓	✓
	Oil Free finish	K	10	✓	✓
	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	✓	✓
	Material certificate	H2	21	✓	✓
	SI unit	U1	5	✓	✓

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

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

*32 In case Flange Rating:JIS30K flange material: SUS316L is not availabale.

*24 In case of "ANSI/JPI600" is used for 3in. Flange type and rating, not available for the extended diaphragm flange type.

*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

Issued : Oct. 31, 2001	Page : 1-1-53
Effective : Nov. 1, 2003	UNIT : 1000YEN

Model STH960/STH980 (Remote-sealed Button DiaphragmType)
Button Diaphragm 1-1/2 in. External Screw
For Regular / Oxygen Service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	0.7 to 10MPa (7 to 102 kgf/cm ²)	STH960	Button Diaphragm Type : 1-1/2 in. External screw
	0.7 to 42MPa (7 to 420 kgf/cm ²)	STH980	

Selection I				Code	Price	Fill Fluid Code		
I	Fill Fluid	Flange Type	Model No.	Fill Fluid		1	2	
		Button Diaphragm Type 1-1/2 in. External screw	STH960	Regular type service (Silicone oil)	1	433		
				For oxygen service (Fluorine oil) *3	2	495		
			STH980	Regular type service (Silicone oil)	1	487		
				For oxygen service (Fluorine oil) *3	2	549		
II	Flange Standard	No flange		N	0	✓	✓	
III	Flange Type & Rating	1-1/2in. External screw button diaphragm		2	0	✓	✓	
IV	Screw Material	SUS304		7	25	✓	✓	
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, othes : SUS316)		2	0	✓	✓	
		SUS316L (Diaphragm :SUS316L, others : SUS316L)		8	25	✓	✓	
VI	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))		J	0	✓	✓	
VII	Length of Extended Parts	Flush Diaphragm (For 1-1/2in. External screw)		00	0	✓	✓	
VIII	Length of Capillary Tube	2m		2	3	✓	✓	
		3m		3	7	✓	✓	
		4m		4	14	✓	✓	
		5m		5	21	✓	✓	
	Length of Capillary Tube with Olefin Coating	2m		B	18	✓	✓	
		3m		C	22	✓	✓	
		4m		H	29	✓	✓	
		5m		D	36	✓	✓	

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Effective : Nov. 1, 2003	UNIT : 1000YEN

Model STH960/STH980 (Remote-sealed Button DiaphragmType)
Button Diaphragm 1-1/2 in. External Screw
For Regular / Oxygen Service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	0.7 to 10MPa (7 to 102 kgf/cm ²)	STH960	Button Diaphragm Type : 1-1/2 in. Male screw
	0.7 to 42MPa (7 to 420 kgf/cm ²)	STH980	

	Code	Price	Fill Fluid Code		
			1	2	
	-				
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	10	✓	✓
	SUS630 Bolt and nuts material	U	30	✓	✓
	Corrosion-resistant finish	A	11	✓	✓
	Corrosion-proof finish	B	14	✓	✓
	Corrosion-resistant finish, silver paint	D	16	✓	✓
	Oil Free finish	K	10	✓	✓
	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	✓	✓
	PED (97/23/EC) conformity *34 *36	H1	40	✓	✓
	Material certificate	H2	21	✓	✓
	Max working pressure 20MPa *36	H3	0	✓	✓
	SI unit	U1	5	✓	✓

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

*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.

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

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

*36 Applicable for STH980 only.

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

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Effective : Apr. 1,2003	UNIT : 1000YEN

Model STH920/940/960/980 (Remote-sealed 2 in. Wafer DiaphragmType)

2 in. Wafer (Pancake)

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	2.5 to 100kPa (250 to 10,160mmHzO)	STH920	2 in. Wafer Diaphragm Type ANSI1500 equivalent
	35 to 3500kPa (0.35 to 35kgf/cm ²)	STH940	
	0.7 to 10MPa (7 to 102kgf/cm ²)	STH960	
	0.7 to 42MPa (7 to 420kgf/cm ²)	STH980	

Selection I				Code	Price	Fill Fluid Code		
I	Fill Fluid	Flange Type	Model No.	Fill Fluid		1	2	
	2 in. Wafer Type		STH920 STH940 STH960	Regular type service (Silicone oil)	1	433		
				For oxygen service (Fluorine oil) *3	2	495		
			STH980	Regular type service (Silicone oil)	1	487		
				For oxygen service (Fluorine oil) *3	2	549		
II	Flange Standard	No flange			N	0	✓	✓
III	Flange Type & Rating	2 in. Wafer Type (ANSI1500 equivalent)			1	0	✓	✓
IV	Flange Material	No flange			N	0	✓	✓
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, othes : SUS316)			2	0	✓	✓
		SUS316L (Diaphragm :SUS316L, others : SUS316L)			8	25	✓	✓
VI	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))			J	0	✓	✓
VII	Length of Extended Parts	Flush			00	0	✓	✓
VIII	Length of Capillary Tube	2m			2	3	✓	✓
		3m			3	7	✓	✓
		4m			4	14	✓	✓
		5m			5	21	✓	✓
		6m			6	28	✓	✓
		7m			7	35	✓	✓
		8m			8	42	✓	✓
		9m			9	49	✓	✓
		10m			A	56	✓	✓
					B	18	✓	✓
	Length of Capillary Tube with Olefin Coating	2m			C	22	✓	✓
		3m			H	29	✓	✓
		4m			D	36	✓	✓
		5m			J	43	✓	✓
		6m			E	50	✓	✓
		7m			F	57	✓	✓
		8m			K	64	✓	✓
		10m			G	71	✓	✓

ST3000 Series 900
Electric Pressure Transmitter

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Effective : Nov. 1, 2003	UNIT : 1000YEN

Model STH920/940/960/980 (Remote-sealed 2 in. Wafer Diaphragm Type)
2 in. Wafer (Pancake)

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	2.5 to 100kPa (250 to 10,160mmHzO)	STH920	2 in. Wafer Diaphragm Type ANSI1500 equivalent
	35 to 3500kPa (0.35 to 35kgf/cm ²)	STH940	
	0.7 to 10MPa (7 to 102kgf/cm ²)	STH960	
	0.7 to 42MPa (7 to 420kgf/cm ²)	STH980	

		Code	Price	Fill Fluid Code	
				1	2
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	✓	✓
	SUS630 Bolt and nuts material	U	30	✓	✓
	Corrosion-resistant finish	A	11	✓	✓
	Corrosion-proof finish	B	14	✓	✓
	Corrosion-resistant finish, silver paint	D	16	✓	✓
	Oil Free finish	K	10	✓	✓
	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	✓	✓
	PED (97/23/EC) conformity *34 *36	H1	40	✓	✓
	Material certificate	H2	21	✓	✓
	Max working pressure 20MPa *36	H3	0	✓	✓
	SI unit	U1	5	✓	✓

*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.

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

*36 Applicable for STH980 only.

*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

Issued : Jun. 15, 2001	Page : 1-1-57
Effective : Apr. 1, 2003	UNIT : 1000YEN

Model STH940/STH960 (Remote-sealed 2 in. Wafer DiaphragmType)

2 in. Wafer (Pancake)

For High-Temperature/Vacuum, High-Temperature/High-Vacuum service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	35 to 3500kPa (0.35 to 35kgf/cm ²)	STH940	2 in. Wafer Diaphragm Type ANSI1500 equivalent
	0.7 to 10MPa (7 to 102kgf/cm ²)	STH960	

Selection I				Code	Price	Fill Fluid Code	
I	Fill Fluid	Flange Type	Model No.	Fill Fluid		4	7
		2 in. Wafer Type	STH940 STH960	For high-temperature vacuum service (Silicone oil)	4	729	
				For high-temperature high-vacuum service (Silicone oil)	7	1,155	
II	Flange Standard	No flange		N	0	✓	✓
III	Flange Type & Rating	2 in. Wafer Type (ANSI1500 equivalent)		1	0	✓	✓
IV	Flange Material	No flange		N	0	✓	✓
V	Material of Wetted Parts	SUS316L (Diaphragm :SUS316L, others : SUS316L)		8	25	✓	✓
VI	Finish of gasket face	Standard (JIS Ra3.2 (12.5S))		J	0	✓	✓
VII	Length of Extended Parts	Flush		00	0	✓	✓
VIII	Length of Capillary Tube	2m		2	3	✓	✓
		3m		3	7	✓	✓
		4m		4	14	✓	✓
		5m		5	21	✓	✓
		6m		6	28	✓	✓
		7m		7	35	✓	✓
		8m		8	42	✓	✓
		9m		9	49	✓	✓
		10m		A	56	✓	✓

ST3000 Series 900
Electric Pressure Transmitter

Issued : Jun. 15, 2001	Page : 1-1-58
Effective : Nov. 1, 2003	UNIT : 1000YEN

Model STH940/STH960 (Remote-sealed 2 in. Wafer DiaphragmType)

2 in. Wafer (Pancake)

For High-Temperature/Vacuum, High-Temperature/High-Vacuum service

Model No. : STH9X0 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	35 to 3500kPa (0.35 to 35kgf/cm ²)	STH940	2 in. Wafer Diaphragm Type ANSI1500 equivalent
	0.7 to 10MPa (7 to 102kgf/cm ²)	STH960	

		Code	Price	Fill Fluid Code	
				4	7
		-			
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	✓	✓
	SUS630 Bolt and nuts material	U	30	✓	✓
	Corrosion-resistant finish	A	11	✓	✓
	Corrosion-proof finish	B	14	✓	✓
	Corrosion-resistant finish, silver paint	D	16	✓	✓
	Oil Free finish	K	10	✓	✓
	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	✓	✓
	Material certificate	H2	21	✓	✓
SI unit	U1	5	✓	✓	

*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.

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

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

*36 Applicable for STH980 only.

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