

ST3000 Series 900
Electric Pressure Transmitter

Issued : Jun. 15, 2001	Page : 1-1-37
Effective : May 1, 2006	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 10,160mmH ₂ O)	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
		STH920	Regular type service (Silicone oil)	1	433				
		STH940	For oxygen service (Fluorine oil) *3	2	495				
		STH960	For high-temperature service (Silicone oil)	3	495				
		Flush Diaphragm Flange Type 3in. (80mm)	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	SUS304		7	0	✓	✓	✓	✓
		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	✓	✓	✓	✓

ST3000 Series 900
Electric Pressure Transmitter

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Effective : Apr. 1, 2005	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	✓	✓	✓	✓	
	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	✓	✓	✓	✓	
	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.

*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.

ST3000 Series 900**Electric Pressure Transmitter****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.

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	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	

Selection I		Model No.	Fill Fluid	Code	Price	Fill Fluid Code			
I	Fill Fluid					1	2	3	5
		STH940 STH960 Flush Diaphragm Flange Type 2in.(50mm) 1.5in.(40mm)	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	SUS304		7	0	✓	✓	✓	✓
		SUS316		2	40	✓	✓	✓	✓
		SUS316L		8	50	✓	✓	✓	✓
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, othes : SUS316)		2	0	✓	✓	✓	
		SUS316L (Diaphragm :SUS316L, others : SUS316L) *17		8	25	✓	✓	✓	
		Tantalum (Diaphragm :Tantalum, others : Tantalum) *27		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	✓	✓	✓	✓
	Length of Capillary Tube with Olefin Coating	2m		B	18	✓	✓	✓	✓
		3m		C	22	✓	✓	✓	✓
		4m		H	29	✓	✓	✓	✓
		5m		D	36	✓	✓	✓	✓

ST3000 Series 900**Electric Pressure Transmitter****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.

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Effective : Apr. 1, 2005	UNIT : 1000YEN

	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	✓	✓	✓	✓
	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	✓	✓	✓	✓
	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.

*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.

ST3000 Series 900**Electric Pressure Transmitter****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.

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	Measuring span	2.5 to 100kPa (250 to 10,160mmH ₂ O)	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	For oxygen service (Fluorine oil) *3	2	495			
		STH960	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	SUS304		7	0	✓	✓	✓
		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	✓	✓	✓

ST3000 Series 900**Electric Pressure Transmitter****Model STH920/STH940/STH960 (Remote-sealed Diaphragm Type)****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	✓	✓	✓
	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	✓	✓	✓
	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.

*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**Electric Pressure Transmitter****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.

Issued : Jun. 15, 2001	Page : 1-1-43
Effective : May 1, 2006	UNIT : 1000YEN

Measuring Span		35 to 3500kPa (0.35 to 35kgf/cm²)	STH940	Extended Diaphragm Flange Type : 3in./80mm, 2in./50mm				
		0.7 to 10 MPa (7 to 102 kgf/cm²)	STH960					
Selection I				Code	Price	Fill Fluid Code		
I	Fill Fluid	Model No.	Fill Fluid			1	2	3
		STH940 STH960 Extended Diaphragm Flange Type 3in.(80mm) 2in.(50mm)	Regular type service (Silicone oil)	1	433			
			For oxygen service (Fluorine oil) *3	2	495			
			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	SUS304		7	0	✓	✓	✓
		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	✓	✓	✓

ST3000 Series 900**Electric Pressure Transmitter****Model STH940/STH960 (Remote-sealed Diaphragm Type)****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.

Issued : Jun. 15, 2001	Page : 1-1-44
Effective : Apr. 1, 2005	UNIT : 1000YEN

	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	✓	✓	✓
	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	✓	✓	✓
	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.

*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**

Issued : Jun. 15, 2001	Page : 1-1-45
Effective : May 1, 2006	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	Model No.	Fill Fluid			4	7
		STH940 STH960 Flush Diaphragm Flange Type 3in. (80mm)	For high-temperature vacuum service (Silicone oil)	4	729		
			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 , ANSI/JPI 600 (RF)equivalent		C	15	✓	✓
IV	Flange Material	SUS304		7	0	✓	✓
		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 : Apr. 1, 2005	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	✓	✓
	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	✓	✓
	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.

*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****Model STH940/STH960 (Remote-sealed Diaphragm Type)****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.

Issued : Jun. 15, 2001	Page : 1-1-47
Effective : May 1, 2006	UNIT : 1000YEN

	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	SUS304		7	0	✓	✓
		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****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.

Issued : Jun. 15, 2001	Page : 1-1-48
Effective : Apr. 1, 2005	UNIT : 1000YEN

	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	✓	✓
	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	✓	✓
	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.

*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****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.

Issued : Jun. 15, 2001	Page : 1-1-49
Effective : May 1, 2006	UNIT : 1000YEN

	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.	Fill Fluid			4	7
		STH940 STH960 Extended Diaphragm Flange Type 4 in. / 100 mm	For high-temperature vacuum service (Silicone oil)	4	729		
			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 *23		B	10	✓	✓
		JIS 30K , ANSI/JPI 600 (RF)equivalent *20 *24		C	15	✓	✓
IV	Flange Material	SUS304		7	0	✓	✓
		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****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.

Issued : Jun. 15, 2001	Page : 1-1-50
Effective : Apr. 1, 2005	UNIT : 1000YEN

	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	✓	✓
	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	✓	✓
	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.

*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.

ST3000 Series 900**Electric Pressure Transmitter****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.

Issued : Jun. 15, 2001	Page : 1-1-51
Effective : May 1, 2006	UNIT : 1000YEN

	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 Extended Diaphragm 3in./80mm, 2in./50mm	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	SUS304		7	0	✓	✓
		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****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.

Issued : Jun. 15, 2001	Page : 1-1-52
Effective : Apr. 1, 2005	UNIT : 1000YEN

	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	✓	✓
	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	✓	✓
	Material certificate	H2	21	✓	✓
	SI unit	U1	5	✓	✓

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

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

*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	✓	✓

ST3000 Series 900**Electric Pressure Transmitter****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

Issued : Jun. 15, 2001	Page : 1-1-54
Effective : Apr. 1, 2005	UNIT : 1000YEN

Basic Model No.

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

*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 : Oct. 31,2001	Page : 1-155
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 10,160mmH ₂ O)	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	✓	✓
		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	✓	✓	

ST3000 Series 900
Electric Pressure Transmitter

Issued : Jun. 15, 2001	Page : 1-1-56
Effective : Apr. 1, 2005	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	

		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	✓	✓
	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 *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.

*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 : 1-157
Effective : Apr. 1, 2003	UNIT : 1000YEN

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

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 : Apr. 1, 2005	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	✓	✓
	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	✓	✓
	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.

*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.