

ST3000 Series 900

Electric Pressure Transmitter

Issued : Sep. 1, 2006	Page : 1-1-61
Effective : Sep. 1, 2006	UNIT : 1000YEN

Model STS922 / STS940 (Remote-sealed Diaphragm Type for Absolute Pressure)

Flush Diaphragm 3 in./80 mm

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

Model No. : STS9XX - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	4.0 to 104kPa abs (30 to 780mmHg abs.) *13	STS922	Flush Diaphragm Type : 3in. / 80mm
	35 to 3500kPa abs (0.35 to 35kgf/cm ² abs.)*14	STS940	

Selection I		Code	Price				
I	Fill Fluid	Model No.	Fill Fluid		4	7	
		STS922 STS940 Flush Diaphragm Flange Type 3in. (80mm)	For high-temperature vacuum service (Silicone oil)	4	830		
			For high-temperature high vacuum service (Silicone oil)	7	1,390		
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	✓	✓
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	✓	✓

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Flush Diaphragm 3 in./80 mm

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

Model No. : STS9XX - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	4.0 to 104kPa abs (30 to 780mmHg abs.) *13	STS922	Flush Diaphragm Type : 3in. / 80mm
	35 to 3500kPa abs (0.35 to 35kgf/cm ² abs.)*14	STS940	

		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	✓	✓	

*13 Specify range in abs. Pressure. Correct: 0 to 500mmHg abs. Incorrect : -700mmHg to 1kgf/cm²

*14 Specify range in abs. Pressure. Correct: 0 to 3kgf/cm² abs. Incorrect : -1 to 2kgf/cm² abs.

*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.

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

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Model STS922 / STS940 (Remote-sealed Diaphragm Type for Absolute Pressure)
Extended Diaphragm 4 in./100 mm
For High-Temperature/Vacuum, High-Temperature/High-Vacuum service

Model No. : STS9XX - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

	Measuring Span	4.0 to 104kPa abs (30 to 780mmHg abs.) *13	STS922	Extended Diaphragm Type : 4in./100mm
		35 to 3500kPa abs (0.35 to 35kgf/cm ² abs.) *14	STS940	

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	830		
			For high-temperature high- vacuum service (Silicone oil)	7	1,390		
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 *20 *24		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	✓	✓
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	✓	✓
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	✓	✓

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Model STS922 / STS940 (Remote-sealed Diaphragm Type for Absolute Pressure)
Extended Diaphragm 4 in./100 mm

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

Model No. : STS9XX - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	4.0 to 104kPa abs (30 to 780mmHg abs.) *13	STS922	Extended Diaphragm Type : 4in./100mm
	35 to 3500kPa abs (0.35 to 35kgf/cm ² abs.) *14	STS940	

		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	✓	✓

*13 Specify range in abs. Pressure. Correct: 0 to 500mmHg abs. Incorrect : -700mmHg to 1kgf/cm²

*14 Specify range in abs. Pressure. Correct: 0 to 3kgf/cm² abs. Incorrect : -1 to 2kgf/cm² abs.

*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.

*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.