

ST3000 Series 900 Electric Absolute Pressure Transmitter

Issued : Jun. 15, 2001	Page : 1-1-10
Effective : Nov. 1, 2003	UNIT : 1000YEN

Model STA923 (Low Absolute Pressure), Model STA940 (High Absolute Pressure)

Model No. : STA923 - I II III - 00000 - Option I - Option Model No. : STA940 - I II III - 00000 - Option I - Option II
Basic Model No.

Measuring Span	4.0 to 104kPa abs (30 to 780mmHg abs.) *13	STA923
	35 to 3500kPa abs (0.35 to 35kgf/cm ² abs.) *14	STA940

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

*1 SCS14A (Equivalent SUS316) or SUSF316

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

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

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

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

*9 Applicable for wetted parts of center body material ; Hastelloy C or Tantalum

*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.

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