

ST3000 Series 900

Electric Differential Pressure Transmitter

Model STC929 (Flange Type for Medium Differential Pressure)

Model STC940 (Flange Type for High Differential Pressure)

Model No. : STC929 - I II III IV V VI VII VIII - Option I - Option II

Model No. : STC940 - I II III IV V VI VII VIII - Option I - Option II

Basic model no.

Issued : Jun. 15, 2001	Page : 1-1-11
Effective : Mar. 1, 2003	UNIT : 1000YEN

Measuring Span	2.5 to 100kPa(250 to 10,160mmH ₂ O)	STC929	Flush Flange Type 3in. (80mm)
	35 to 3500kPa(0.35 to 35kgf/cm ²)	STC940	

Selection I				Code	Price	Material Code											
I	Material	Reference Side Meter Body Cover	Adapter Flange	Vent / Drain Plugs	Wetted Parts of Flange Side Center Body	Wetted Parts of Reference Side Center Body			A	B	D	E	F	H	U	8	9
									Carbon steel	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	Diaphragm:SUS316L Others : SUS316	A	345		
Carbon steel	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	Diaphragm:SUS316L Others : SUS316	B	398											
Carbon steel	SCS14A*1	SUS316	Diaphragm : Tantalum Others : Tantalum	Diaphragm:SUS316L Others : SUS316	D	440											
SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	Diaphragm:SUS316L Others : SUS316	E	379											
SCS14A*1	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	Diaphragm:SUS316L Others : SUS316	F	432											
SCS14A*1	SCS14A*1	SUS316	Diaphragm : Tantalum Others : Tantalum	Diaphragm:SUS316L Others : SUS316	H	485											
SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316L	Diaphragm:SUS316L Others : SUS316	U	405											
Carbon steel Ni plating	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	Diaphragm:SUS316L Others : SUS316	8	345											
Carbon steel Ni plating	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	Diaphragm:SUS316L Others : SUS316	9	398											
II	Fill Fluid	Regular type (Silicone oil)				1	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		For oxygen service (Fluorine oil) *3				2	43				✓	✓	✓	✓			
		For chlorine service (Fluorine oil) *3				5	43						✓	✓	✓	✓	
III	Process Connection	Top or Bottom Connection	Rc1/2 with adapter flange				Q	3	✓	✓	✓	✓	✓	✓	✓	✓	✓
			1/2NPT internal thread with adapter flange				R	3	✓	✓	✓	✓	✓	✓	✓	✓	✓
			Rc1/4 with adapter flange				S	3	✓	✓	✓	✓	✓	✓	✓	✓	✓
			1/4NPT internal thread with adapter flange				T	3	✓	✓	✓	✓	✓	✓	✓	✓	✓
			1/4NPT internal thread on head				U	0	✓	✓	✓	✓	✓	✓	✓	✓	✓
			Open to atmosphere				H	0	✓	✓	✓	✓	✓	✓	✓	✓	✓
IV	Flange Standard	ANSI flange				A	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		JIS flange				J	0	✓	✓	✓	✓	✓	✓	✓	✓		
		JPI flange				P	0	✓	✓	✓	✓	✓	✓	✓	✓		
V	Flange Type & Rating	Standard	JIS 10K , ANSI/JPI 150(RF) equivalent				A	0	✓	✓	✓	✓	✓	✓	✓	✓	
			JIS 20K , ANSI/JPI 300(RF) equivalent				B	25	✓	✓	✓	✓	✓	✓	✓		
			JIS 30K , ANSI/JPI 600(RF) equivalent				C	25	✓	✓	✓	✓	✓	✓	✓		
VI	Flange Material	Carbon steel				1	0	✓	✓	✓	✓	✓	✓	✓	✓		
		SUS304				7	25	✓	✓	✓	✓	✓	✓	✓			
		SUS316				2	40	✓	✓	✓	✓	✓	✓	✓			
		SUS316L				8	50	✓	✓	✓	✓	✓	✓	✓			
VII	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))				J	0	✓	✓	✓	✓	✓	✓	✓			
VIII	Length of Extended Parts	Flush Diaphragm 3in. / 80mm				00	0	✓	✓	✓	✓	✓	✓	✓			

*1 SCS14A (Equivalent SUS316) or SUSF316

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

ST3000 Series 900

Electric Differential Pressure Transmitter

Model STC929 (Flange Type for Medium Differential Pressure)

Model STC940 (Flange Type for High Differential Pressure)

Model No. : STC929 - I II III IV V VI VII VIII - Option I - Option II

Model No. : STC940 - I II III IV V VI VII VIII - Option I - Option II

Issued : Jun. 15, 2001	Page : 1-1-12
Effective : May 1, 2004	UNIT : 1000YEN

Basic Model No.

Measuring Span	2.5 to 100kPa(250 to 10,160mmH ₂ O)	STC929	Flush Flange Type 3in. (80mm)
	35 to 3500kPa(0.35 to 35kgf/cm ²)	STC940	

	Code	Price	Material Code																	
			A	B	D	E	F	H	U	8	9									
	-																			
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	20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Corrosion-resistant finish	A	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Corrosion-proof finish	B	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Corrosion-resistant finish, silver paint	D	16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	FEP protective Film	T	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Combination of NEPSI Flameproof and Intrinsically safe	C3	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	0.1mm Thickness Diaphragm *15	F4	130	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	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 - codeK" must be selected.

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

*15 Only available for Material of Wetted Parts : "SUS316" or "SUS316L".

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

Notes ;

Material of meter body cover of high pressure side depends on model number of flange material as follows:

Code	Flange Material
1	Carbon steel
2,7,8	SCS14A*1

ST3000 Series 900

Electric Differential Pressure Transmitter

Model STC929 (Flange Type for Medium Differential Pressure)

Model STC940 (Flange Type for High Differential Pressure)

Model No. : STC929 - I II III IV V VI VII VIII - Option I - Option II

Model No. : STC940 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	2.5 to 100kPa(250 to 10,160mmH2O)	STC929	Extended Flange Type 4in. (100mm)
	35 to 3500kPa(0.35 to 35kgf/cm2)	STC940	

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Effective : Mar. 1, 2003	UNIT : 1000YEN

Selection I		Code	Price	Material Code								
I	Material	Reference Side Meter Body Cover	Adapter Flange	Vent/Drain Plugs	Wetted Parts of Flange Side Center Body	Wetted Parts of Reference Side Center Body		A	E	U	9	
		Carbon steel	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	Diaphragm:SUS316L Others : SUS316	A	386				
		SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	Diaphragm:SUS316L Others : SUS316	E	427				
		SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316L	Diaphragm:SUS316L Others : SUS316	U	636				
		Carbon steel Ni plating	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	Diaphragm:SUS316L Others : SUS316	9	386				
II	Fill Fluid	Regular type (Silicon oil)					1	0	✓	✓	✓	✓
		For oxygen service (Fluorine oil) *3					2	43		✓	✓	
		For chlorine service (Fluorine oil) *3					5	43				
III	Process Connection	Top or Bottom Connection	Rc1/2 with adapter flange			Q	3	✓	✓	✓	✓	
			1/2NPT internal thread with adapter flange			R	3	✓	✓	✓	✓	
			Rc1/4 with adapter flange			S	3	✓	✓	✓	✓	
			1/4NPT internal thread with adapter flange			T	3	✓	✓	✓	✓	
			1/4NPT internal thread on head			U	0	✓	✓	✓	✓	
			Open to atmosphere			H	0	✓	✓	✓	✓	
IV	Flange Standard	ANSI flange			A	0	✓	✓	✓	✓		
		JIS flange			J	0	✓	✓	✓	✓		
		JPI flange			P	0	✓	✓	✓	✓		
V	Flange Type & Rating	Standard	JIS 10K , ANSI/JPI 150(RF) equivalent			A	0	✓	✓	✓	✓	
			JIS 20K , ANSI/JPI 300(RF) equivalent			B	25	✓	✓	✓	✓	
			JIS 30K *30			C	25	✓	✓	✓	✓	
VI	Flange Material	Carbon steel			1	0	✓	✓	✓	✓		
		SUS304			7	25	✓	✓	✓	✓		
		SUS316			2	40	✓	✓	✓	✓		
		SUS316L *30			8	50	✓	✓	✓	✓		
VII	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))			J	0	✓	✓	✓	✓		
VIII	Length of Extended Parts	L = 50mm (4in. / 100mm)			09	58	✓	✓	✓	✓		
		L = 100mm (4in. / 100mm)			14	68	✓	✓	✓	✓		
		L = 150mm (4in. / 100mm)			19	75	✓	✓	✓	✓		
		L = 200mm (4in. / 100mm)			24	83	✓	✓	✓	✓		
		L = 250mm (4in. / 100mm)			29	93	✓	✓	✓	✓		
		L = 300mm (4in. / 100mm) *30			34	103	✓	✓	✓	✓		

*1 SCS14A (Equivalent SUS316) or SUSF316

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

*30 In case Flange Rating: JIS30K, Wetted Parts material: SUS316L and for high temperature service, Extension length of Flange 300mm is not available.

ST3000 Series 900

Electric Differential Pressure Transmitter

Model STC929 (Flange Type for Medium Differential Pressure)

Model STC940 (Flange Type for High Differential Pressure)

Model No. : STC929 - I II III IV V VI VII VIII - Option I - Option II

Model No. : STC940 - I II III IV V VI VII VIII - Option I - Option II

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Effective : May 1, 2004	UNIT : 1000YEN

Basic Model No.

Measuring Span	2.5 to 100kPa(250 to 10,160mmH2O)	STC929	Extended Flange Type 4in. (100mm)
	35 to 3500kPa(0.35 to 35kgf/cm2)	STC940	

	Code	Price	Material Code			
			A	E	U	9
	-					
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 20	✓	✓	✓	✓
	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	✓	✓	✓	✓
	Combination of NEPSI Flameproof and Intrinsically safe	C3 11	✓	✓	✓	✓
	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	✓	✓	✓	✓
	0.1mm Thickness Diaphragm	F4 300	✓	✓	✓	✓
	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.

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

Notes ;

Material of meter body cover of high pressure side depends on model number of flange material as follows:

Code	Flange Material
1	Carbon steel
2,7,8	SCS14A*1

ST3000 Series 900

Electric Differential Pressure Transmitter

Model STC929 (Flange Type for Medium Differential Pressure)

Model STC940 (Flange Type for High Differential Pressure)

Model No. : STC929 - I II III IV V VI VII VIII - Option I - Option II

Model No. : STC940 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

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

Measuring Span	2.5 to 100kPa(250 to 10,160mmH2O)	STC929	Flush Flange Type
	35 to 3500kPa(0.35 to 35kgf/cm2)	STC940	2in.(50mm), 1.5in.(40mm)

Selection I							Code	Price	Material Code									
I	Material	Reference Side Meter Body Cover	Adapter Flange	Vent / Drain Plugs	Wetted Parts of Flange Side Center Body	Wetted Parts of Reference Side Center Body			A	B	D	E	F	H	U	8	9	
	Carbon steel	SCS14A*1	SUS316		Diaphragm:SUS316L Others : SUS316	Diaphragm:SUS316L Others : SUS316	A	345										
	Carbon steel	SCS14A*1	SUS316		Diaphragm : Hastelloy C Others : Hastelloy C	Diaphragm:SUS316L Others : SUS316	B	398										
	Carbon steel	SCS14A*1	SUS316		Diaphragm : Tantalum Others : Tantalum	Diaphragm:SUS316L Others : SUS316	D	440										
	SCS14A*1	SCS14A*1	SUS316		Diaphragm:SUS316L Others : SUS316	Diaphragm:SUS316L Others : SUS316	E	379										
	SCS14A*1	SCS14A*1	SUS316		Diaphragm : Hastelloy C Others : Hastelloy C	Diaphragm:SUS316L Others : SUS316	F	432										
	SCS14A*1	SCS14A*1	SUS316		Diaphragm : Tantalum Others : Tantalum	Diaphragm:SUS316L Others : SUS316	H	485										
	SCS14A*1	SCS14A*1	SUS316		Diaphragm:SUS316L Others : SUS316L	Diaphragm:SUS316L Others : SUS316	U	405										
	Carbon steel Ni plating	SCS14A*1	SUS316		Diaphragm : Hastelloy C Others : Hastelloy C	Diaphragm:SUS316L Others : SUS316	8	345										
	Carbon steel Ni plating	SCS14A*1	SUS316		Diaphragm:SUS316L Others : SUS316	Diaphragm:SUS316L Others : SUS316	9	432										
II	Fill Fluid	Regular type (Silicone oil)					1	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		For oxygen service (Fluorine oil) *3					2	43				✓	✓	✓	✓			
		For chlorine service (Fluorine oil) *3					5	43						✓	✓			
III	Process Connection	Top or Bottom Connection	Rc1/2 with adapter flange					Q	3	✓	✓	✓	✓	✓	✓	✓	✓	
			1/2NPT internal thread with adapter flange					R	3	✓	✓	✓	✓	✓	✓	✓	✓	
			Rc1/4 with adapter flange					S	3	✓	✓	✓	✓	✓	✓	✓	✓	
			1/4NPT internal thread with adapter flange					T	3	✓	✓	✓	✓	✓	✓	✓	✓	
			1/4NPT internal thread on head					U	0	✓	✓	✓	✓	✓	✓	✓	✓	
			Open to atmosphere					H	0	✓	✓	✓	✓	✓	✓	✓	✓	
IV	Flange Standard	ANSI flange					A	0	✓	✓	✓	✓	✓	✓	✓	✓		
		JIS flange					J	0	✓	✓	✓	✓	✓	✓	✓	✓		
		JPI flange					P	0	✓	✓	✓	✓	✓	✓	✓	✓		
V	Flange Type & Rating	Standard	JIS 10K , ANSI/JPI 150(RF) equivalent					A	0	✓	✓	✓	✓	✓	✓	✓	✓	
			JIS 20K , ANSI/JPI 300(RF) equivalent					B	25	✓	✓	✓	✓	✓	✓	✓		
			JIS 30K , ANSI/JPI 600(RF) equivalent					C	25	✓	✓	✓	✓	✓	✓	✓		
VI	Flange Material	Carbon steel					1	0	✓	✓	✓	✓	✓	✓	✓	✓		
		SUS304					7	25	✓	✓	✓	✓	✓	✓	✓			
		SUS316					2	40	✓	✓	✓	✓	✓	✓	✓			
		SUS316L					8	50	✓	✓	✓	✓	✓	✓	✓			
VII	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))					J	0	✓	✓	✓	✓	✓	✓	✓	✓		
VIII	Length of Extended Parts	Flush Diaphragm 2in. / 50mm					01	0	✓	✓	✓	✓	✓	✓	✓	✓		
		Flush Diaphragm 1.5in. / 40mm					02	0	✓	✓	✓	✓	✓	✓	✓			

*1 4A (Equivalent SUS316) or SUS316

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

ST3000 Series 900

Electric Differential Pressure Transmitter

Model STC929 (Flange Type for Medium Differential Pressure)

Model STC940 (Flange Type for High Differential Pressure)

Model No. : STC929 - I II III IV V VI VII VIII - Option I - Option II

Model No. : STC940 - I II III IV V VI VII VIII - Option I - Option II

Basic Model Nc

	Measuring Span	2.5 to 100kPa(250 to 10,160mmH2O)	STC929	Flush Flange Type 2in.(50mm), 1.5in.(40mm)
		35 to 3500kPa(0.35 to 35kgf/cm2)	STC940	

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	Code	Price	Material Code											
			A	B	D	E	F	H	U	8	9			
	-													
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	20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Corrosion-resistant finish	A	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Corrosion-proof finish	B	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Corrosion-resistant finish, silver paint	D	16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	FEP protective Film	T	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Combination of NEPSI Flameproof and Intrinsically safe	C3	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	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.

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

Notes;

Material of meter body cover of high pressure side depends on model number of flange material as follows:

Code	Flange Material
1	Carbon steel
2,7,8	SCS14A*1

ST3000 Series 900

Electric Differential Pressure Transmitter

Model STC929 (Flange Type for Medium Differential Pressure)

Model STC940 (Flange Type for High Differential Pressure)

Model No. : STC929 - I II III IV V VI VII VIII - Option I - Option II

Model No. : STC940 - 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 10,160mmH2O)	STC929	Extended Flange Type 3in. (80mm), 2in. (50mm)
	35 to 3500kPa(0.35 to 35kgf/cm2)	STC940	

Selection I		Code	Price	Material Code							
I	Material	Reference side meter body cover	Adapter flange	Vent/Drain plugs	Wetted parts of flange side center body	Wetted parts of reference side center	A	E	U	9	
	Carbon steel	SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	Diaphragm:SUS316L Others : SUS316	A				
	SCS14A*1	SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	Diaphragm:SUS316L Others : SUS316	E				
	SCS14A*1	SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316L	Diaphragm:SUS316L Others : SUS316	U				
	Carbon steel Ni plating	SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	Diaphragm:SUS316L Others : SUS316	9				
II	Fill Fluid	Regular type (Silicon oil)				1	0	✓	✓	✓	✓
		For oxygen service (Fluorine oil) *3				2	43	✓	✓		
		For chlorine service (Fluorine oil) *3				5	43				
III	Process Connection	Top or Bottom Connection	Rc1/2 with adapter flange			Q	3	✓	✓	✓	✓
			1/2NPT internal thread with adapter flange			R	3	✓	✓	✓	✓
			Rc1/4 with adapter flange			S	3	✓	✓	✓	✓
			1/4NPT internal thread with adapter flange			T	3	✓	✓	✓	✓
			1/4NPT internal thread on head			U	0	✓	✓	✓	✓
			Open to atmosphere			H	0	✓	✓	✓	✓
IV	Flange Standard	ANSI flange			A	0	✓	✓	✓	✓	
		JIS flange			J	0	✓	✓	✓	✓	
		JPI flange			P	0	✓	✓	✓	✓	
V	Flange Type & Rating	Standard	JIS 10K , ANSI/JPI 150(RF) equivalent			A	0	✓	✓	✓	✓
			JIS 20K , ANSI/JPI 300(RF) equivalent			B	25	✓	✓	✓	✓
			JIS 30K , ANSI/JPI 600(RF) equivalent *24			C	25	✓	✓	✓	✓
VI	Flange Material	Carbon steel			1	0	✓	✓	✓	✓	
		SUS304			7	25	✓	✓	✓	✓	
		SUS316			2	40	✓	✓	✓	✓	
		SUS316L *24			8	50	✓	✓	✓	✓	
VII	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))			J	0	✓	✓	✓	✓	
VIII	Length of Extended Parts	L = 50mm (3in. / 80mm) *24			05	58	✓	✓	✓	✓	
		L = 100mm (3in. / 80mm) *24			10	68	✓	✓	✓	✓	
		L = 150mm (3in. / 80mm) *24			15	75	✓	✓	✓	✓	
		L = 50mm (2in. / 50mm)			06	58	✓	✓	✓	✓	
		L = 100mm (2in. / 50mm)			11	68	✓	✓	✓	✓	
		L = 150mm (2in. / 50mm)			16	75	✓	✓	✓	✓	

*1 4A (Equivalent SUS316) or SUS316

*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/JPI 600" is used for 3 in. flange type and rating, not available for the extended diaphragm flange type.

ST3000 Series 900

Electric Differential Pressure Transmitter Model STC929 (Flange Type for Medium Differential Pressure) Model STC940 (Flange Type for High Differential Pressure)

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Effective : May 1, 2004	UNIT : 1000YEN

Model No. : STC929 - I II III IV V VI VII VIII - Option I - Option II

Model No. : STC940 - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Measuring Span	2.5 to 100kPa(250 to 10,160mmH2O)	STC929	Extended Flange Type 3in.(80mm), 2in.(50mm)
	35 to 3500kPa(0.35 to 35kgf/cm2)	STC940	

	Code	Price	Material Code				
			A	E	U	9	
	-						
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	20	✓	✓	✓	✓
	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	✓	✓	✓	✓
	Combination of NEPSI Flameproof and Intrinsically safe	C3	11	✓	✓	✓	✓
	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	✓	✓	✓	✓
	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.

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

Notes ;

Material of meter body cover of high pressure side depends on model number of flange material as follows:

Code	Flange Material
1	Carbon steel
2,7,8	SCS14A*1