

**ST3000 Series 900**  
**Electric Differential Pressure Transmitter**  
**Model STE929/STE930 (Remote-sealed DiaphragmType)**  
**Flush Diaphragm 3 in. / 80 mm**  
**For Regular / High-Temperature Service**

Issued : Jun. 15, 2001	Page : 1-19
Effective : Jul. 1, 2003	UNIT : 1000YEN

Model No. : STE9XX - 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)	STE929	Flush Diaphragm Flange Type : 3in./80mm
	35 to 700kPa (0.35 to 7kgf/cm <sup>2</sup> )	STE930	

Selection I		Model No.	Fill Fluid	Code	Price	Fill Fluid Code			
	Fill Fluid					1	2	3	5
I	Fill Fluid	STE929 Flush Diaphragm 3in. / 80mm	Regular type service(Silicone oil)	1	589				
			For oxygen service(Fluorine oil) *3	2	651				
			For high-temperature service (Silicone oil) *17	3	651				
			For chlorine service (Fluorine oil) *3	5	651				
		STE930 Flush Diaphragm 3in. / 80mm	Regular type service(Silicone oil)	1	601				
			For oxygen service(Fluorine oil) *3	2	663				
			For high-temperature service (Silicone oil) *17	3	663				
			For chlorine service (Fluorine oil) *3	5	663				
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	15	✓	✓	✓	✓	
		JIS 30K , ANSI/JPI 600 (RF)equivalent	C	20	✓	✓	✓	✓	
IV	Flange Material	Carbon Steel	1	0	✓	✓	✓	✓	
		SUS304	7	50	✓	✓	✓	✓	
		SUS316	2	80	✓	✓	✓	✓	
		SUS316L	8	100	✓	✓	✓	✓	
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, others : SUS316)	2	0	✓	✓	✓		
		SUS316L (Diaphragm :SUS316L, others : SUS316L)	8	40	✓	✓	✓		
		Tantalum (Diaphragm :Tantalum, others : Tantalum) *17	4	250	✓	✓	✓	✓	
		HastelloyC (Diaphragm :HastelloyC, others : HastelloyC)	9	155	✓	✓	✓		
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	5	✓	✓	✓	✓	
		3m	3	10	✓	✓	✓	✓	
		4m	4	20	✓	✓	✓	✓	
		5m	5	30	✓	✓	✓	✓	
		6m	6	40	✓	✓	✓	✓	
		7m	7	50	✓	✓	✓	✓	
		8m	8	60	✓	✓	✓	✓	
		9m	9	70	✓	✓	✓	✓	
		10m	A	80	✓	✓	✓	✓	
		Length of Capillary Tube with Olefin Coating	2m	B	25	✓	✓	✓	✓
	3m		C	30	✓	✓	✓	✓	
	4m		H	40	✓	✓	✓	✓	
	5m		D	50	✓	✓	✓	✓	
	6m		J	60	✓	✓	✓	✓	
	7m		E	70	✓	✓	✓	✓	
	8m		F	80	✓	✓	✓	✓	
	9m		K	90	✓	✓	✓	✓	
	10m	G	100	✓	✓	✓	✓		

**ST3000 Series 900**  
**Electric Differential Pressure Transmitter**  
**Model STE929/STE930 (Remote-sealed DiaphragmType)**  
**Flush Diaphragm 3 in. / 80 mm**  
**For Regular / High-Temperature Service**

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Effective : Nov. 1, 2003	UNIT : 1000YEN

Basic Model No.

Measuring Span	2.5 to 100kPa (250 to 10,160mmHzO)	STE929	Flush Diaphragm: 3in./80mm
	35 to 700kPa (0.35 to 7kgf/cm <sup>2</sup> )	STE930	

				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	21	✓	✓		✓
	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 Exprosn-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 *18	F4	50	✓	✓	✓	✓
	Material certificate	H2	21	✓	✓	✓	✓
	Direct Mounting Kits	R8	30	✓	✓		✓
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 +180dig.C

\*18 0.1 mm thickness diaphragm option is only available for Material of Wetted parts : "SUS316" and "SUS316L".

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

# ST3000 Series 900

## Electric Differential Pressure Transmitter

### Model STE929/STE930 (Remote-sealed DiaphragmType)

#### Extended Diaphragm 4 in. / 100 mm

#### For Regular / High-Temperature Service

Model No. : STE9XX - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

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Effective : Jul. 1, 2003	UNIT : 1000YEN

Measuring Span	2.5 to 100kPa (250 to 10,160mmHzO)	STE929	Extended Diaphragm Flange Type : 4in./100mm
	35 to 700kPa (0.35 to 7kgf/cm <sup>2</sup> )	STE930	

Selection I		Code	Price	Fill Fluid Code				
	Flange Type			Fill Fluid	1	2	3	
I	Fill Fluid	STE929 Extended Diaphragm 4 in. (100mm)	Regular type service (Silicone oil) *16	1	589			
			For oxygen service (Fluorine oil) *3 *16	2	651			
			For high-temperature service (Silicone oil) *20 *19	3	651			
		STE930 Extended Diaphragm 4 in. (100mm)	Regular type service (Silicone oil) *16	1	601			
			For oxygen service (Fluorine oil) *3 *16	2	663			
			For high-temperature service (Silicone oil) *20 *19	3	663			
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	15	✓	✓	✓	
		JIS 30K *20 *16	C	20	✓	✓	✓	
IV	Flange Material	Carbon Steel	1	0	✓	✓	✓	
		SUS304	7	50	✓	✓	✓	
		SUS316	2	80	✓	✓	✓	
		SUS316L *20 *16 *19	8	100	✓	✓	✓	
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, others : SUS316)	2	0	✓	✓	✓	
		SUS316L (Diaphragm :SUS316L, others : SUS316L) *16 *19 *20	8	40	✓	✓	✓	
VI	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))	J	0	✓	✓	✓	
VII	Length of Extended Parts	L = 50mm (4in. / 100mm) *20	09	123	✓	✓	✓	
		L = 100mm (4in. / 100mm) *20	14	136	✓	✓	✓	
		L = 150mm (4in. / 100mm) *16 *20	19	150	✓	✓	✓	
		L = 200mm (4in. / 100mm) *16 *20	24	175	✓	✓	✓	
		L = 250mm (4in. / 100mm) *16 *19 *20	29	189	✓	✓	✓	
		L = 300mm (4in. / 100mm) *16 *19 *20	34	200	✓	✓	✓	
VIII	Length of Capillary Tube	2m	2	5	✓	✓	✓	
		3m	3	10	✓	✓	✓	
		4m	4	20	✓	✓	✓	
		5m	5	30	✓	✓	✓	
		6m	6	40	✓	✓	✓	
		7m	7	50	✓	✓	✓	
		8m	8	60	✓	✓	✓	
		9m	9	70	✓	✓	✓	
		10m	A	80	✓	✓	✓	
		Length of capillary tube olefin coating	2m	B	25	✓	✓	✓
	3m		C	30	✓	✓	✓	
	4m		H	40	✓	✓	✓	
	5m		D	50	✓	✓	✓	
	6m		J	60	✓	✓	✓	
	7m		E	70	✓	✓	✓	
	8m		F	80	✓	✓	✓	
	9m		K	90	✓	✓	✓	
	10m		G	100	✓	✓	✓	

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

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Effective : Nov. 1, 2003	UNIT : 1000YEN

**Model STE929/STE930 (Remote-sealed DiaphragmType)**  
**Extended Diaphragm 4 in. / 100 mm**  
**For Regular / High-Temperature Service**

Basic Model No.

Measuring Span	2.5 to 100kPa (250 to 10,160mmHzO)	STE929	Extended Diaphragm: 4 in. / 100 mm
	35 to 700kPa (0.35 to 7kgf/cm <sup>2</sup> )	STE930	

				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 Exprosion-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	50	✓	✓	✓
	Material certificate	H2	21	✓	✓	✓
	Direct Mounting Kits	R8	30	✓	✓	✓
	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".

\*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, Extended 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 Differential Pressure Transmitter**

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**Model STE929/STE930 (Remote-sealed DiaphragmType)**  
**Flush Diaphragm 2 in. / 50 mm, 1.5 in. / 40 mm**  
**For Regular / High-Temperature Service**

Model No. : STE9XX - 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)	STE929	Flush Diaphragm Type : 2in./50mm, 1.5in./40mm
	35 to 700kPa (0.35 to 7kgf/cm <sup>2</sup> )	STE930	

Selection I		Flange Type	Fill Fluid	Code	Price	Fill Fluid Code			
I	Fill Fluid					1	2	3	5
I		STE929 Flush Diaphragm 2 in. (50mm) 1.5in. (40mm)	Regular type service (Silicone oil)	1	589				
			For oxygen service (Fluorine oil) *3	2	651				
			For high-temperature service (Silicone oil) *17	3	651				
			For chlorine service (Fluorine oil) *3	5	651				
		STE930 Flush Diaphragm 2 in. (50mm) 1.5in. (40mm)	Regular type service (Silicone oil)	1	589				
			For oxygen service (Fluorine oil) *3	2	651				
			For high-temperature service (Silicone oil) *17	3	651				
			For chlorine service (Fluorine oil) *3	5	651				
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	15	✓	✓	✓	✓	
		JIS 30K , ANSI/JPI 600 (RF)equivalent	C	20	✓	✓	✓	✓	
IV	Flange Material	Carbon Steel	1	0	✓	✓	✓	✓	
		SUS304	7	50	✓	✓	✓	✓	
		SUS316	2	80	✓	✓	✓	✓	
		SUS316L	8	100	✓	✓	✓	✓	
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, others : SUS316)	2	0	✓	✓	✓		
		SUS316L (Diaphragm :SUS316L, others : SUS316L)	8	40	✓	✓	✓		
		Tantalum (Diaphragm :Tantalum, others : Tantalum) *17 *21	4	250	✓	✓	✓	✓	
		HastelloyC (Diaphragm :HastelloyC, others : HastelloyC)	9	155	✓	✓	✓	✓	
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 *21	02	0	✓	✓	✓	✓	
VIII	Length of Capillary Tube	2m	2	5	✓	✓	✓	✓	
		3m	3	10	✓	✓	✓	✓	
		4m *22	4	20	✓	✓	✓	✓	
		5m *22	5	30	✓	✓	✓	✓	
	Length of Capillary Tube with Olefin Coating	2m	B	25	✓	✓	✓	✓	
		3m	C	30	✓	✓	✓	✓	
		4m *22	H	40	✓	✓	✓	✓	
		5m *22	D	50	✓	✓	✓	✓	

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

Issued : Jun. 15, 2001	Page : 1-1-24
Effective : Nov. 1, 2003	UNIT : 1000YEN

**Model STE929/STE930 (Remote-sealed DiaphragmType)**  
**Flush Diaphragm 2 in. / 50 mm, 1.5 in. / 40 mm**  
**For Regular / High-Temperature Service**

Basic Model No.

Measuring Span	2.5 to 100kPa (250 to 10,160mmH <sub>2</sub> O)	STE929	Flush Diaphragm: 2 in. / 50 mm, 1.5 in. / 40 mm
	35 to 700kPa (0.35 to 7kgf/cm <sup>2</sup> )	STE930	

				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	21	✓	✓		✓
	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 Exprosn-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	50				
	Material certificate	H2	21	✓	✓	✓	✓
	Direct Mounting Kits	R8	30	✓	✓		✓
	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

\*21 In case: Basic Model is STE929, and Tantalum is used for diaphragm material and Flange size is "Flush Daiphragm 1.5in./40mm", 2m or 3m (Code 2, 3, B, or C) for "Length of Capillary Tube " are applicable and Minimum Span will be 10kPa

\*22 Specifications for Capillary Length 4m and 5m are as follows;

- Temperature characteristics and Static pressure effect will be 1.5 times of those of High-temperautre service.
- Ambient temperature range for Regular service: -10 to 55 deg C, Temperature of wetted parts : -30 to 110 deg C
- Ambient temperature range for Oxygen service: -10 to 55 deg C, Temperature of wetted parts : -10 to 110 deg C
- In the case, Ambient temepature is 40 deg C, the highest wetted parts temperature for High-temp service (4 m) will be 280 deg C.
- In the case, Ambient temepature is 38 deg C, the highest wetted parts temperature for High-temp service (5 m) will be 280 deg 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 Differential Pressure Transmitter**

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Effective : Mar. 1, 2003	UNIT : 1000YEN

**Model STE929/STE930 (Remote-sealed DiaphragmType)**  
**Extended Diaphragm 3 in. / 80 mm, 2 in. / 50 mm**  
**For Regular / High-Temperature Service**

Model No. : STE9XX - 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)	STE929	Extended Diaphragm Type : 3in./80mm, 2in./50mm
	35 to 700kPa (0.35 to 7kgf/cm <sup>2</sup> )	STE930	

Selection I		Flange Type	Fill Fluid	Code	Price	Fill Fluid Code		
	Fill Fluid					1	2	3
I		STE929 Extended Diaphragm 3 in. (80mm) 2 in. (50mm)	Regular type service (Silicone oil)	1	589			
			For oxygen service (Fluorine oil) *3	2	651			
			For high-temperature service (Silicone oil)	3	651			
		STE930 Extended Diaphragm 3 in. (80mm) 2 in. (50mm)	Regular type service (Silicone oil)	1	589			
			For oxygen service (Fluorine oil) *3	2	651			
			For high-temperature service (Silicone oil) *31	3	651			
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	15	✓	✓	✓	
		JIS 30K , ANSI/JPI 600 (RF)equivalent *24 *31	C	20	✓	✓	✓	
IV	Flange Material	Carbon Steel	1	0	✓	✓	✓	
		SUS304	7	50	✓	✓	✓	
		SUS316	2	80	✓	✓	✓	
		SUS316L	8	100	✓	✓	✓	
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, others : SUS316)	2	0	✓	✓	✓	
		SUS316L (Diaphragm :SUS316L, others : SUS316L) *31	8	40	✓	✓	✓	
VI	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))	J	0	✓	✓	✓	
VII	Length of Extended Parts	L = 50mm (3in. /80mm) *24	05	123	✓	✓	✓	
		L = 100mm (3in. /80mm) *24	10	136	✓	✓	✓	
		L = 150mm (3in. /80mm) *24	15	150	✓	✓	✓	
		L = 200mm (3in. /80mm) *24	20	175	✓	✓	✓	
		L = 250mm (3in. /80mm) *24	25	189	✓	✓	✓	
		L = 300mm (3in. /80mm) *24	30	200	✓	✓	✓	
		L = 50mm (2in. / 50mm) *24	06	123	✓	✓	✓	
		L = 100mm (2in. / 50mm) *24	11	136	✓	✓	✓	
		L = 150mm (2in. / 50mm) *24	16	150	✓	✓	✓	
		L = 200mm (2in. / 50mm) *24 *31	21	175	✓	✓	✓	
		L = 250mm (2in. / 50mm) *24 *31	26	189	✓	✓	✓	
		L = 300mm (2in. / 50mm) *24 *31	31	200	✓	✓	✓	
VIII	Length of Capillary Tube	2m	2	5	✓	✓	✓	
		3m	3	10	✓	✓	✓	
		4m *22	4	20	✓	✓	✓	
		5m *22	5	30	✓	✓	✓	
		Intrinsically safe for NEPSI cannot be selected with -D7.	2m	B	25	✓	✓	✓
	3m	C	30	✓	✓	✓		
	4m *22	H	40	✓	✓	✓		
	5m *22	D	50	✓	✓	✓		

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

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Effective : Nov. 1, 2003	UNIT : 1000YEN

**Model STE929 / STE930**

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

**For Regular / High-Temperature Service**

Model No. : STE929 - 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 <sub>2</sub> O)	STE929	Extended Diaphragm Flange Type : 3in./80mm, 2in./50mm
----------------	---	--------	--

		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 Exprosn-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	✓	✓	✓
	Direct Mounting Kits	R8	30	✓	✓	✓
	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.

\*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.

\*22 Specifications for Capillary Length 4m and 5m are as follows;

- a. Temperature characteristics and Static pressure effect will be 1.5 times of those of High-temperature service.
- b. Ambient temperature range for Regular service: -10 to 55 deg C, Temperature of wetted parts : -30 to 110 deg C
- c. Ambient temperature range for Oxygen service: -10 to 55 deg C, Temperature of wetted parts : -10 to 110 deg C
- d. In the case, Ambient temperature is 40 deg C, the highest wetted parts temperature for High-temp service (4 m) will be 280 deg C.
- e. In the case, Ambient temperature is 38 deg C, the highest wetted parts temperature for High-temp service (5 m) will be 280 deg C.

\*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 Differential Pressure Transmitter**

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Effective : Mar. 1, 2003	UNIT : 1000YEN

**Model STE929/STE930 (Remote-sealed DiaphragmType)**  
**Flush & Extended Combination Flange Type**  
**For Regular / High-Temperature Service**

Model No. : STE9XX - 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 <sub>2</sub> O)	STE929	Combination Flush & Extended Diaphragm Flange Type Extended Diaphragm:4in./100mm - Flush Diaphragm:3in./80mm
	35 to 700kPa(0.35 to 7kgf/cm <sup>2</sup> )	STE930	

Selection I				Code	Price	Fill Fluid Code						
						STE929			STE930			
I	Fill Fluid	Flange Type	Model No.	Fill Fluid								
	Combination Flush & Extended Diaphragm Flange Type		STE929 Extended Diaphragm:4in./100mm - Flush Diaphragm:3in./80mm	Regular type service (Silicone oil) *16	1	589						
				For oxygen service (Fluorine oil) *3 *16	2	651						
				For high-temperature service (Silicone oil) *19 *20	3	651						
				Regular type service (Silicone oil) *16	1	601						
				For oxygen service (Fluorine oil) *3 *16	2	663						
				For high-temperature service (Silicone oil) *19 *20	3	663						
II	Flange Standard	ANSI flange			A	0	✓	✓	✓	✓	✓	✓
		JIS flange			J	0	✓	✓	✓	✓	✓	✓
		JPI flange			P	0	✓	✓	✓	✓	✓	✓
III	Flange Type & Rating	Combination Flush & Extended Diaphragm Flange Type JIS 10K , ANSI/JPI 150 (RF)equivalent			G	0	✓	✓	✓	✓	✓	✓
		Combination Flush & Extended Diaphragm Flange Type JIS 20K , ANSI/JPI 300 (RF)equivalent *2 *19			H	30	✓	✓	✓	✓	✓	✓
		Combination Flush & Extended Diaphragm Flange Type JIS 30K *2 *16 *20			J	30	✓	✓	✓	✓	✓	✓
IV	Flange Material	Carbon Steel			1	0	✓	✓	✓	✓	✓	✓
		SUS304			7	50	✓	✓	✓	✓	✓	✓
		SUS316			2	80	✓	✓	✓	✓	✓	✓
		SUS316L *2*3			8	100	✓	✓	✓	✓	✓	✓
V	Material of wetted parts	SUS316 (Diaphragm : SUS316L, others : SUS316)			2	0	✓	✓	✓	✓	✓	✓
		SUS316L (Diaphragm :SUS316L, others : SUS316L) *16 *20 *19			8	40	✓	✓	✓	✓	✓	✓
VI	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))			J	0	✓	✓	✓	✓	✓	✓
VII	Length of Extended Parts	L = 50mm (4in. / 100mm) *20			09	123	✓	✓	✓	✓	✓	✓
		L = 100mm (4in. / 100mm) *20			14	136	✓	✓	✓	✓	✓	✓
		L = 150mm (4in. / 100mm) *16 *20			19	150	✓	✓	✓	✓	✓	✓
		L = 200mm (4in. / 100mm) *16 *20			24	175	✓	✓	✓	✓	✓	✓
		L = 250mm (4in. / 100mm) *16 *19 *20			29	189	✓	✓	✓	✓	✓	✓
		L = 300mm (4in. / 100mm) *16 *19 *20			34	200	✓	✓	✓	✓	✓	✓
VIII	Length of Capillary Tube	2m			2	5	✓	✓	✓	✓	✓	✓
		3m			3	10	✓	✓	✓	✓	✓	✓
		4m			4	20	✓	✓	✓	✓	✓	✓
		5m			5	30	✓	✓	✓	✓	✓	✓
		6m			6	40	✓	✓	✓	✓	✓	✓
		7m			7	50	✓	✓	✓	✓	✓	✓
		8m			8	60	✓	✓	✓	✓	✓	✓
		9m			9	70	✓	✓	✓	✓	✓	✓
		10m			A	80	✓	✓	✓	✓	✓	✓
		Length of Capillary Tube with Olefin Coating	2m			B	25	✓	✓	✓	✓	✓
	3m			C	30	✓	✓	✓	✓	✓	✓	
	4m			H	40	✓	✓	✓	✓	✓	✓	
	5m			D	50	✓	✓	✓	✓	✓	✓	
	6m			J	60	✓	✓	✓	✓	✓	✓	
	7m			E	70	✓	✓	✓	✓	✓	✓	
	8m			F	80	✓	✓	✓	✓	✓	✓	
	9m			K	90	✓	✓	✓	✓	✓	✓	
	10m			G	100	✓	✓	✓	✓	✓	✓	

# ST3000 Series 900 Electric Differential Pressure Transmitter

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Effective : Nov. 1, 2003	UNIT : 1000YEN

## Model STE929 / STE930

### For Regular / High-Temperature Service

Model No. : STE9XX - 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)	STE929	Combination Flush & Extended Diaphragm Flange Type Extended Diaphragm:4in./100mm - Flush Diaphragm:3in./80mm
	35 to 700kPa(0.35 to 7kgf/cm <sup>2</sup> )	STE930	

	Code	Price	Fill Fluid Code							
			STE929			STE930				
			1	2	3	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	✓	✓	✓	✓	✓	✓	✓
	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	✓	✓	✓	✓	✓	✓	✓
	Material certificate	H2	21	✓	✓	✓	✓	✓	✓	✓
	Direct Mounting Kits	R8	30	✓	✓		✓	✓		
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 250mm / 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.

#### Notes of "Order Entry"

SH No.	SH8030	Must be specified in "Remarks of Order Entry Sheets"
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# ST3000 Series 900

## Electric Differential Pressure Transmitter

### Model STE929/STE930 (Remote-sealed DiaphragmType)

#### Flush Diaphragm 3 in. / 80 mm

#### For High-Temperature/Vacuum, High-Temperature/High-Vacuum Service

Model No. : STE9XX - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

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Effective : Mar. 1, 2003	UNIT : 1000YEN

Measuring Span	2.5 to 100kPa (250 to 10,160mmHzO)	STE929	Flush Diaphragm Flange Type : 3in./80mm
	35 to 700kPa (0.35 to 7kgf/cm <sup>2</sup> )	STE930	

Selection I			Code	Price	Fill Fluid Code		
I	Fill Fluid	Model No.	Fill Fluid			4	7
		STE929	For high-temperature / vacuum service (Silicone oil)	4	1,095		
		Flush Diaphragm 3in. / 80mm	For high-temperature / high-vacuum service (Silicone oil)	7	1,495		
		STE930	For high-temperature / vacuum service (Silicone oil)	4	1,095		
		Flush Diaphragm 3in. / 80mm	For high-temperature /high-vacuum service (Silicone oil)	7	1,495		
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	15	✓	✓
		JIS 30K , ANSI/JPI 600 (RF)equivalent		C	20	✓	✓
IV	Flange Material	Carbon Steel		1	0	✓	✓
		SUS304		7	50	✓	✓
		SUS316		2	80	✓	✓
		SUS316L		8	100	✓	✓
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, others : SUS316)		2	0		
		SUS316L (Diaphragm :SUS316L, others : SUS316L)		8	40	✓	✓
		Tantalum (Diaphragm :Tantalum, others : Tantalum) *17		4	250	✓	✓
		HastelloyC (Diaphragm :Hastelloy C, others : Hastelloy C)		9	155	✓	✓
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	5	✓	✓
		3m		3	10	✓	✓
		4m		4	20	✓	✓
		5m		5	30	✓	✓
		6m		6	40	✓	✓
		7m		7	50	✓	✓
		8m		8	60	✓	✓
		9m		9	70	✓	✓
		10m		A	80	✓	✓

# ST3000 Series 900

## Electric Differential Pressure Transmitter

Model STE929/STE930 (Remote-sealed DiaphragmType)

Flush Diaphragm 3 in. / 80 mm

For High-Temperature/Vacuum, High-Temperature/High-Vacuum Service

Issued : Jun. 15, 2001	Page : 1-1-30
Effective : Nov. 1, 2003	UNIT : 1000YEN

Basic Model No.

Measuring Span	2.5 to 100kPa (250 to 10,160mmH <sub>2</sub> O)	STE929	Flush Diaphragm: 3in./80mm
	35 to 700kPa (0.35 to 7kgf/cm <sup>2</sup> )	STE930	

				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	✓	✓
	0.1mm Thickness Diaphragm	F4	50		
	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 Differential Pressure Transmitter

### Model STE929/STE930 (Remote-sealed DiaphragmType)

#### Extended Diaphragm 4 in. / 100 mm

#### For High-Temperature/Vacuum, High-Temperature/High-Vacuum Service

Model No. : STE9XX - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Issued : Jun. 15, 2001	Page : 1-131
Effective : Mar. 1, 2003	UNIT : 1000YEN

Measuring Span	2.5 to 100kPa (250 to 10,160mmHzO)	STE929	Extended Diaphragm Flange Type : 4in./100mm
	35 to 700kPa (0.35 to 7kgf/cm <sup>2</sup> )	STE930	

Selection I			Code	Price	Fill Fluid Code		
I	Fill Fluid	Flange Type	Fill Fluid		4	7	
		STE929 Extended Diaphragm 4 in. (100mm)	For high-temperature / vacuum service (Silicone oil)	4	1,095		
			For high-temperature / high-vacuum service (Silicone oil)	7	1,495		
		STE930 Extended Diaphragm 4 in. (100mm)	For high-temperature / vacuum service (Silicone oil)	4	1,095		
			For high-temperature / high-vacuum service (Silicone oil)	7	1,495		
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 *23		B	15	✓	✓
		JIS 30K , ANSI/JPI 600 (RF)equivalent *20 *24		C	20	✓	✓
IV	Flange Material	Carbon Steel		1	0	✓	✓
		SUS304		7	50	✓	✓
		SUS316		2	80	✓	✓
		SUS316L		8	100	✓	✓
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, others : SUS316)		2	0	✓	✓
		SUS316L (Diaphragm :SUS316L, others : SUS316L) *20 *23		8	40	✓	✓
VI	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))		J	0	✓	✓
VII	Length of Extended Parts	L = 50mm (4in. / 100mm) *24		09	123	✓	✓
		L = 100mm (4in. / 100mm) *24		14	136	✓	✓
		L = 150mm (4in. / 100mm) *24		19	150	✓	✓
		L = 200mm (4in. / 100mm) *23 *24		24	175	✓	✓
		L = 250mm (4in. / 100mm) *23 *24		29	189	✓	✓
		L = 300mm (4in. / 100mm) *23 *24		34	200	✓	✓
VIII	Length of Capillary Tube	2m		2	5	✓	✓
		3m		3	10	✓	✓
		4m		4	20	✓	✓
		5m		5	30	✓	✓
		6m		6	40	✓	✓
		7m		7	50	✓	✓
		8m		8	60	✓	✓
		9m		9	70	✓	✓
		10m		A	80	✓	✓

# ST3000 Series 900

## Electric Differential Pressure Transmitter

Model STE929/STE930 (Remote-sealed DiaphragmType)

Extended Diaphragm 4 in. / 100 mm

For High-Temperature/Vacuum, High-Temperature/High-Vacuum Service

Issued : Jun. 15, 2001	Page : 1-1-32
Effective : Nov. 1, 2003	UNIT : 1000YEN

Basic Model No.

Measuring Span	2.5 to 100kPa (250 to 10,160mmH <sub>2</sub> O)	STE929	Extended Diaphragm:4 in. / 100 mm
	35 to 700kPa (0.35 to 7kgf/cm <sup>2</sup> )	STE930	

				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	✓	✓
	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 *15	F4	50		
	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.

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

\*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 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 Differential Pressure Transmitter

### Model STE929/STE930 (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. : STE9XX - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

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Effective : Mar. 1, 2003	UNIT : 1000YEN

Measuring Span	2.5 to 100kPa (250 to 10,160mmH <sub>2</sub> O)	STE929	Flush Diaphragm Type : 2in./50mm, 1.5in./40mm
	35 to 700kPa (0.35 to 7kgf/cm <sup>2</sup> )	STE930	

Selection I			Code	Price		
I	Fill Fluid	Flange Type			4	7
		STE929 Flush Diaphragm 2 in. (50mm) 1.5in. (40mm)	For high-temperature/vacuum service (Silicone oil)	4	1,095	
			For high-temperature / high-vacuum service (Silicone oil)	7	1,495	
		STE930 Flush Diaphragm 2 in. (50mm) 1.5in. (40mm)	For high-temperature / vacuum service (Silicone oil)	4	1,095	
		For high-temperature high-vacuum service (Silicone oil)	7	1,495		
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	15	✓	✓
		JIS 30K , ANSI/JPI 600 (RF)equivalent	C	20	✓	✓
IV	Flange Material	Carbon Steel	1	0	✓	✓
		SUS304	7	50	✓	✓
		SUS316	2	80	✓	✓
		SUS316L	8	100	✓	✓
V	Parts	SUS316L (Diaphragm :SUS316L, others : SUS316L)	8	40	✓	✓
		Tantalum (Diaphragm :Tantalum, others : Tantalum) *17	4	250	✓	✓
		HastelloyC (Diaphragm :HastelloyC, others : HastelloyC)	9	155	✓	✓
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	5	✓	✓
		3m	3	10	✓	✓
		4m	4	20	✓	✓
		5m	5	30	✓	✓

\*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

# ST3000 Series 900

## Electric Differential Pressure Transmitter

Model STE929/STE930 (Remote-sealed DiaphragmType)

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

For High-Temperature/Vacuum, High-Temperature/High-Vacuum Service

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Effective : Nov. 1, 2003	UNIT : 1000YEN

Basic Model No.

Measuring Span	2.5 to 100kPa (250 to 10,160mmH <sub>2</sub> O)	STE929	Flush Diaphragm: 2 in. / 50 mm, 1.5 in. / 40 mm
	35 to 700kPa (0.35 to 7kgf/cm <sup>2</sup> )	STE930	

				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	✓	✓
	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	50		
	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 Differential Pressure Transmitter

### Model STE929/STE930 (Remote-sealed Diaphragm Type)

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

#### For High-Temperature/Vacuum, High-Temperature/High-Vacuum Service

Model No. : STE9XX - I II III IV V VI VII VIII - Option I - Option II

Basic Model No.

Issued : Jun. 15, 2001	Page : 1-135
Effective : Mar. 1, 2003	UNIT : 1000YEN

Measuring Span	2.5 to 100kPa (250 to 10,160mmHzO)	STE929	Extended Diaphragm Type : 3in./80mm, 2in./50mm
	35 to 700kPa (0.35 to 7kgf/cm <sup>2</sup> )	STE930	

Selection I			Code	Price	Fill Fluid Code		
I	Fill Fluid	Flange Type			4	7	
		STE929 Extended Diaphragm 3 in. (80mm) 2 in. (50mm)	For high-temperature service (Silicone oil)	4	1,095		
			For high-temperature high-vacuum service (Silicone oil)	7	1,495		
		STE930 Extended Diaphragm 3 in. (80mm) 2 in. (50mm)	For high-temperature service (Silicone oil)	4	1,095		
		For high-temperature high-vacuum service (Silicone oil)	7	1,495			
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	15	✓	✓	
		JIS 30K , ANSI/JPI 600 (RF)equivalent *24	C	20	✓	✓	
IV	Flange Material	Carbon Steel	1	0	✓	✓	
		SUS304	7	50	✓	✓	
		SUS316	2	80	✓	✓	
		SUS316L	8	100	✓	✓	
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, others : SUS316)	2	0	✓	✓	
		SUS316L (Diaphragm :SUS316L, others : SUS316L)	8	40	✓	✓	
VI	Finish of Gasket Face	Standard (JIS Ra3.2 (12.5S))	J	0	✓	✓	
VII	Length of Extended Parts	L = 50mm (3in. /80mm) *24	05	123	✓	✓	
		L = 100mm (3in. /80mm) *24	10	136	✓	✓	
		L = 150mm (3in. /80mm) *24	15	150	✓	✓	
		L = 50mm (2in. / 50mm) *24	06	123	✓	✓	
		L = 100mm (2in. / 50mm) *24	11	136	✓	✓	
		L = 150mm (2in. / 50mm) *24	16	150	✓	✓	
VIII	Length of Capillary Tube	2m	2	5	✓	✓	
		3m	3	10	✓	✓	
		4m	4	20	✓	✓	
		5m	5	30	✓	✓	

# ST3000 Series 900

## Electric Differential Pressure Transmitter

Issued : Jun. 15, 2001	Page : 1-1-36
Effective : Nov. 1, 2003	UNIT : 1000YEN

### Model STE929 (Remote-sealed Diaphragm Type for Medium Differential Pressure)

### For High-Temperature/Vacuum, High-Temperature/High-Vacuum Service

Model No. : STE929 - 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 <sub>2</sub> O)	STE929	Extended Diaphragm Type : 3in./80mm, 2in./50mm
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		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	✓	✓
	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.

\*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.