

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

Issued : Jun. 15, 2001	Page : 1-159
Effective : Mar. 1, 2003	UNIT : 1000YEN

**Model STU940 (Remote-sealed Diaphragm Type for Absolute Pressure)**

Model No. : STU940 - 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	STU940 *29	Flush Diaphragm Flange Type : 3in./80mm
	35 to 3500kPa abs (0.35 to 35kgf/cm <sup>2</sup> abs.)*14		Extended Diaphragm Flange Type : 4in./100mm

Selection I				Code	Price	Fill Fluid Code		
						Flush Diaphragm Flange Type	Extended Diaphragm Flange Type	
I	Fill Fluid	Flange Type	Model No.	7	1,290	3in. (80mm)	4in. (100mm)	
		Flush Diaphragm Flange Type	3in.(80mm)					For high-temperature high-vacuum service(Silicone oil)
		Extended Diaphragm Flange Type	4in.(100mm)					
II	Flange Standard	ANSI flange		A	0	✓	✓	
		JIS flange		J	0	✓	✓	
		JPI flange		P	0	✓	✓	
III	Flange Type & Rating	Flush Diaphragm Flange Type	80mm - 10K 3in. - 150	A	0	✓		
			80mm - 30K 3in. - 300	B	10	✓		
		Extended Diaphragm Flange Type	100mm - 10K 4in. - 150	C	0		✓	
			100mm - 30K 4in. - 300	D *20	10		✓	
IV	Flange Material	Carbon Steel		1	0			
		SUS304		7	25	✓	✓	
		SUS316		2	40	✓	✓	
		SUS316L		8 *3	50	✓	✓	
V	Material of Wetted Parts	SUS316 (Diaphragm : SUS316L, othes : SUS316)		2	0		✓	
		SUS316L (Diaphragm :SUS316L, others : SUS316L)		8	75	✓	✓	
		Tantalum (Diaphragm :Tantalum, others : Tantalum)		4 *17	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	✓		
		L = 50mm (4in. / 100mm)		05	40		✓	
		L = 100mm (4in. / 100mm)		10	50		✓	
		L = 150mm (4in. / 100mm)		15	50		✓	
VIII	Length of Capillary Tube	2m		2	0	✓	✓	
		3m		3	0	✓	✓	
		4m		4	10	✓	✓	
		5m		5	10	✓	✓	
		6m		6	30			
		7m		7	40			
		8m		8	50			
		9m		9	60			
		10m		A	70			
		Length of Capillary Tube with Olefin Coating	2m		B	40		
	3m			C	40			
	4m			H	50			
	5m			D	50			
	6m			J	70			
	7m			E	80			
	8m			F	90			
	9m			K	100			
	10m		G	110				

\*13 Specify range in abs. Pressure. Correct: 0 to 500mmHg abs. Incorrect : -700mmHg to 1kgf/cm<sup>2</sup>

\*14 Specify range in abs. Pressure. Correct: 0 to 3kgf/cm<sup>2</sup> abs. Incorrect : -1 to 2kgf/cm<sup>2</sup> abs.

\*17 In case "Tantalum " is used for diaphragm material and in case of "For high-temperature high-vacuum service", normal operating conditions of meter body (process fluid) temperature is -10 to +180 deg C

\*20 In case "JIS30K" is used for Flange Type & Rating and in case "SUS316L" is used for Flange Material, the Extended Diaphragm Flange Type is not available.

**\*29 Notes of "Order Entry"**

SH No.	SH8989	Must be specified in "Remarks of Order Entry Sheets"
Code No.	R5 or R6	Must be specified in "OptionsII"
	Measuring Span	R5 4.0 to 104kPa abs (30 to 780mmHg abs.) *5
		R6 35 to 3500kPa abs (0.35 to 35kgf/cm <sup>2</sup> abs.)*6
Code No.	U	Must be selected in "Options I"

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

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Effective : Nov. 1, 2003	UNIT : 1000YEN

**Model STU940 (Remote-sealed DiaphragmType for Absolute Pressure)**

Model No. : STU940 - 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	STU940 *29	Flush Diaphragm Flange Type : 3in./80mm
	35 to 3500kPa abs (0.35 to 35kgf/cm <sup>2</sup> abs.)*14		Extended Diaphragm Flange Type : 4in./100mm

		Code	Price	Fill Fluid Code	
				Flush Diaphragm Flange Type	Extended Diaphragm Flange Type
				3in.(80mm)	4in.(100mm)
		-			
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		
	<b>SUS630 Bolt and nuts material *29</b>	<b>U</b>	20	✓	✓
	Corrosion-resistant finish	A	11	✓	✓
	Corrosion-proof finish	B	14	✓	✓
	Corrosion-resistant finish, silver coating	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	✓	✓
	<b>Material certificate</b>	<b>H2</b>	<b>21</b>	✓	✓
	<b>Absolute Pressure Type : 4.0 to 104kPa abs (30 to 780mmHg abs.) *29</b>	<b>R5</b>	105	✓	✓
	<b>Absolute Pressure Type : 35 to 3500kPa abs (0.35 to 35kgf/cm<sup>2</sup> abs.) *29</b>	<b>R6</b>	105	✓	✓
	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.

\*13 Specify range in abs. Pressure. Correct: 0 to 500mmHg abs. Incorrect : -700mmHg to 1kgf/cm<sup>2</sup>

\*14 Specify range in abs. Pressure. Correct: 0 to 3kgf/cm<sup>2</sup> abs. Incorrect : -1 to 2kgf/cm<sup>2</sup> abs.

\*17 In case "Tantalum " is used for diaphragm material and in case of "For high-temperature high-vacuum service", normal operating conditions of meter body (process fluid) temperature is -10 to +180 deg C

\*20 In case Flange Rating: JIS30K, Wetted Parts material: SUS316L and for high temperature service, Extended diaphragm type is not available .

**\*29 Notes of "Order Entry"**

SH No.	SH8989	Must be specified in "Remarks of Order Entry Sheets"
Code No.	R5 or R6	Must be specified in "OptionsII"
	Measuring Span	R5 4.0 to 104kPa abs (30 to 780mmHg abs.) *5
		R6 35 to 3500kPa abs (0.35 to 35kgf/cm <sup>2</sup> abs.)*6
Code No.	U	Must be selected in "Options I"

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