

# ST3000 Series 900

## Electric Differential Pressure Transmitter

### Model STD910 (Standard Type for Lowest Differential Pressure)

Model No. : STD910 - I II III - 00000 - Option I - Option II

Basic Model No.

Measuring Span	0.1 to 2.0kPa (10 to 200mmH2O)	STD910
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Effective : Apr. 1, 2005	UNIT : 1000YEN

Selection I				Code	Price	Material Code	
I	Material	Meter Body Cover	Adapter Flange	Vent/Drain Plugs	Wetted Parts of Center Body	E	
		SCS14A *1	SCS14A*1	SUS316	Diaphragm: SUS316L Others : SUS316	E	320
II	Fill Fluid	Regular type (Silicone oil)				1	0
		For oxygen service (Fluorine oil) *3				2	18
III	Process Connection	Front Connection	Rc1/2 with adapter flange		J	6	
			1/2NPT internal thread with adapter flange		H	6	
			Rc1/4 with adapter flange		M	6	
			1/4NPT internal thread with adapter flange		N	6	
			1/4NPT internal thread on head		P	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	✓	
	<b>SUS304 Bolt and nuts material *4</b>			<b>W</b>	0	✓	
	<b>SUS630 Bolt and nuts material *4</b>			<b>U</b>	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 options			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	✓	
	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

\*4 **Notes of "Order Entry" : "W" or "U" must be selected.**

\*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 STD920 (Standard Type for Medium Differential Pressure)

Model No. : STD920 - I II III - 00000 - Option I - Option II

Basic Model No.

Issued : Jun. 15, 2001	Page : 1-1-2
Effective : Jul. 1, 2005	UNIT : 1000YEN

Measuring Span	0.75 to 100kPa (75 to 10,160mmH <sub>2</sub> O)	STD920
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Selection I		Meter Body cover	Adapter Flange	Vent/Drain Plugs	Wetted Parts of Center Body	Code	Price	Material Code														
I	Material							A	B	D	E	F	H	U	M	P	8	g				
		Carbon steel	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	A	310															
		Carbon steel	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	B	397															
		Carbonsteel	SCS14A*1	SUS316	Diaphragm : Tantalum Others : Tantalum	D	500															
		SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	E	310															
		SCS14A*1	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	F	398															
		SCS14A*1	SCS14A*1	SUS316	Diaphragm : Tantalum Others : Tantalum	H	500															
		SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316L	U	500															
		PVC	PVC	PVC	Diaphragm : Hastelloy C Others : Hastelloy C *8	M	418															
		PVC	PVC	PVC	Diaphragm : Tantalum Others : Tantalum *8	P	490															
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		J	6																
			1/2NPT internal thread with adapter flange		H	6																
			Rc1/4 with adapter flange		M	6																
			1/4NPT internal thread with adapter flange		N	6																
			1/4NPT internal thread on head		P	0																
		Top or Bottom Connection	Rc1/2 with adapter flange *7		Q	6																
			1/2NPT internal thread with adapter flange *7		R	6																
			Rc1/4 with adapter flange *7		S	6																
			1/4NPT internal thread with adapter flange *7		T	6																
			1/4NPT internal thread on head *7		U	0																
						00000																

Options I		Description	Code	Price	Material Code															
					A	B	D	E	F	H	U	M	P	8	g					
		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		Description	Code	Price	Material Code															
					A	B	D	E	F	H	U	M	P	8	g					
		No option	XX	0																
		Adapter flange for corrosion -resistant application *6	A1	15																
		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																
		Side vent/drain top	F1	4																
		Side vent/drain bottom	F2	4																
		PED (97/23/EC) Conformity *34 *35	H1	40																
		Material certificate	H2	21																
		Max working pressure 20MPa *35 *37	H3	0																
		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.  
 \*6 In case Manifold valve is used and in case code D, H, U or P is used, please select code A1 of OptionII  
 \*7 Applicable for wetted parts of center body material ;Tantalum,SUS316L  
 \*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.  
 \*11 When SUS304 bolt/nut is selected, max working pressure rating is 7MPa(70kgf/cm2).  
 \*34 "PED Conformity" is not applicable for the combination with FM, CSA or NEPSI approvals.  
 \*35 Not applicable for the combination with "SUS304 Bolts/Nuts"  
 \*37 Not applicable for the combination with "PED Conformity"  
 \*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 STD930 (Standard Type for High Differential Pressure

Model No. : STD930 - I II III - 00000 - Option I - Option II

Basic Model No.

Measuring Span	35 to 700kPa (0.35 to 7kgf/cm2)	STD930
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Effective : Jul. 1, 2005	UNIT : 1000YEN

Selection I		Code	Price	Material Code																
I	Material	Meter Body Cover	Adapter Flange	Vent/Drain Plugs	Wetted Parts or Center Body			A	B	D	E	F	H	U	M	P	8	9		
		Carbon steel	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	A	321													
Carbon steel	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	B	408															
Carbon steel	SCS14A*1	SUS316	Diaphragm : Tantalum Others : Tantalum	D	511															
SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	E	323															
SCS14A*1	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	F	411															
SCS14A*1	SCS14A*1	SUS316	Diaphragm : Tantalum Others : Tantalum	H	513															
SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316L	U	513															
PVC	PVC	PVC	Diaphragm : Hastelloy C Others : Hastelloy C *6	M	431															
PVC	PVC	PVC	Diaphragm : Tantalum Others : Tantalum *6	P	503															
II	Fill Fluid	Regular type (Silicone oil)			1	0														
		For oxygen service (Fluorine oil) *8			2	18														
		For chlorine service (Fluorine oil) *8			5	18														
III	Process Connection	Front Connection	Rc1/2 with adapter flange		J	6														
			1/2NPT internal thread with adapter flange		H	6														
			Rc1/4 with adapter flange		M	6														
			1/4NPT internal thread with adapter flange		N	6														
			1/4NPT internal thread on head		P	0														
			Rc1/2 with adapter flange *7		Q	6														
	Top or Bottom Connection		1/2NPT internal thread with adapter flange *7		R	6														
			Rc1/4 with adapter flange *7		S	6														
			1/4NPT internal thread with adapter flange *7		T	6														
			1/4NPT internal thread on head *7		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														
		Adapter flange for corrosion -resistant application *6			A1	15														
		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														
		Side vent/drain top			F1	4														
		Side vent/drain bottom			F2	4														
		PED (97/23/EC) Conformity *34 *35			H1	40														
		Material certificate			H2	21														
		Max working pressure 20MPa *35 *37			H3	0														
		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.

\*6 In case Manifold valve is used and in case code D, H, U or P is used, please select code A1 of OptionII

\*7 Applicable for wetted parts of center body material ;Tantalum,SUS316L

\*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.

\*11 When SUS304 bolt/nut is selected, max working pressure rating is 7MPa(70kgf/cm2).

\*34 "PED Conformity" is not applicable for the combination with FM, CSA or NEPSI approvals.

\*35 Not applicable for the combination with "SUS304 Bolts/Nuts"

\*37 Not applicable for the combination with "PED Conformity"

\*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

Issued : Jun. 15, 2001	Page : 1-1-4
Effective : Jul. 1, 2005	UNIT : 1000YEN

### Model STD960 (Standard Type for Super-high Differential Pressure)

Model No. : STD960 - I II III - 00000 - Option I - Option II

Basic Model No.

Measuring Span	0.25 to 14MPa (2.5 to 140kgf/cm <sup>2</sup> )	STD960
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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	8	9		
		Carbon steel	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	A	382											
		Carbon steel	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	B	469											
		Carbon steel	SCS14A*1	SUS316	Diaphragm : Tantalum Others : Tantalum	D	572											
		SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	E	382											
		SCS14A*1	SCS14A*1	SUS316	Diaphragm : Hastelloy C Others : Hastelloy C	F	470											
		SCS14A*1	SCS14A*1	SUS316	Diaphragm : Tantalum Others : Tantalum	H	572											
		SCS14A*1	SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316L	U	572											
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		J	6	✓			✓						✓		
			1/2NPT internal thread with adapter flange		H	6	✓			✓							✓	
			Rc1/4 with adapter flange		M	6	✓			✓							✓	
			1/4NPT internal thread with adapter flange		N	6	✓			✓							✓	
			1/4NPT internal thread on head		P	0	✓			✓							✓	
			Rc1/2 with adapter flange *9		Q	6	✓		✓			✓		✓	✓	✓	✓	✓
			1/2NPT internal thread with adapter flange *9		R	6	✓		✓			✓		✓	✓	✓	✓	✓
	Top or Bottom Connection	Front Connection	Rc1/4 with adapter flange *9		S	6	✓			✓		✓	✓	✓	✓	✓		
			1/4NPT internal thread with adapter flange *9		T	6	✓			✓		✓		✓	✓	✓	✓	
			1/4NPT internal thread on head *9		U	0	✓			✓		✓		✓	✓	✓	✓	
					00000													
					X	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
					L	17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
					P	20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		R	30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		W	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		U	35	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		A	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		B	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		D	16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		K	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		J	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		3	8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		4	8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		5	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		6	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		7	8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		8	7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Options II			No option		XX	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
			Adapter flange for corrosion -resistant application *6		A1	15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
			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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
			Side vent/drain top		F1	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
			Side vent/drain bottom		F2	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
			PED (97/23/EC) Conformity *34 *35		H1	40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
			Material certificate		H2	21	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
			Max working pressure 20MPa *35 *37		H3	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
			SI unit		U1	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

\*1 SCS14A (Equivalent SUS316) or SUS316  
 \*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.  
 \*6 In case Manifold valve is used and in case code D, H, U or P is used, please select code A1 of OptionII  
 \*9 Applicable for wetted parts of center body material ; HastelloyC or Tantalum  
 \*11 When SUS304 bolt/nut is selected, max working pressure rating is 7MPa(70kgf/cm<sup>2</sup>).  
 \*34 "PED Conformity" is not applicable for the combination with FM, CSA or NEPSI approvals.  
 \*35 Not applicable for the combination with "SUS304 Bolts/Nuts"  
 \*37 Not applicable for the combination with "PED Conformity"  
 \*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

Issued : Jun. 15, 2001	Page : 1-1-5
Effective : Jul. 1, 2005	UNIT : 1000YEN

### Model STD921 (High Static Pressure Type for Medium Differential Pressure)

### Model STD931 (High Static Pressure Type for High Differential Pressure)

Model No. : STD921 - I II III - 00000 - Option I - Option II

Model No. : STD931 - I II III - 00000 - Option I - Option II

Basic Model No.

Measuring Span	2.5 to 100kPa (250 to 10,160mmH2O)	STD921
	35 to 700kPa (0.35 to 7kgf/cm2)	STD931

Selection I			Code	Price	Material Code			
I	Material	Meter Body Cover	Vent/Drain Plugs	Wetted Parts of Center Body		A	E	9
		Carbon steel	SUS316	Diaphragm:SUS316L Others : SUS316	A	380		
		SCS14A*1	SUS316	Diaphragm:SUS316L Others : SUS316	E	396		
II	Fill Fluid	Regular type (Silicone oil)		1	0	✓	✓	✓
		For oxygen service (Fluorine oil) *3		2	18		✓	✓
III	Process Connection	Top or Bottom	Rc1/2	Q	0	✓	✓	✓
			1/2NPT internal thread	R	0	✓	✓	✓
			Rc1/4	S	0	✓	✓	✓
			1/4NPT internal thread	T	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	20	✓	✓	✓
	SUS630 Bolt and nuts material			U	100	✓	✓	✓
	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 *38			D7	5	✓	✓	✓
	One Elbow			E1	2	✓	✓	✓
	Two Elbows			E2	4	✓	✓	✓
	External zero/span adjustment			E5	30	✓	✓	✓
	Mounting bracket			E9	2	✓	✓	✓
	PED (97/23/EC) Conformity *34			H1	40	✓	✓	✓
	Material certificate			H2	21	✓	✓	✓
	Max working pressure 20MPa *37			H3	0	✓	✓	✓
	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.

\*12 When SUS304 bolt/nut is selected, max working pressure rating is 23MPa(230kgf/cm2).

\*34 "PED Conformity" is not applicable for the combination with FM, CSA or NEPSI approvals.

\*37 Not applicable for the combination with "PED Conformity"

\*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

Issued : Jun. 15, 2001	Page : 1-1-6
Effective : Jul. 1, 2005	UNIT : 1000YEN

### Model STD961 (High Static Pressure Type for Super-high Differential Pressure)

Model No. : STD961 - I II III - 00000 - Option I - Option II

Basic Model No.

Measuring Span	0.25 to 14MPa (2.5 to 140kgf/cm <sup>2</sup> )	STD961
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Selection I			Code	Price	Material Code		
I	Material				A	E	9
	Meter Body Cover	Vent/Drain Plugs	Wetted Parts of Center Body				
	Carbon steel	SUS316	Diaphragm : SUS316L Others : SUS316	A	452		
	SCS14A*1	SUS316	Diaphragm : SUS316L Others : SUS316	E	468		
II	Fill Fluid	Regular type (Silicone oil)		1	0		
		For oxygen service (Fluorine oil) *3		2	18		
III	Process Connection	Top or Bottom	Rc1/2	Q	0		
			1/2NPT internal thread	R	0		
			Rc1/4	S	0		
			1/4NPT internal thread	T	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	20		
			SUS630 Bolt and nuts material	U	100		
			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 *38	D7	5		
			One Elbow	E1	2		
			Two Elbows	E2	4		
			External zero/span adjustment	E5	30		
			Mounting bracket	E9	2		
			PED (97/23/EC) Conformity *34	H1	40		
			Material certificate	H2	21		
			Max working pressure 20MPa *37	H3	0		
			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, it's recommended to select "oil free finish - code K"

\*12 When SUS304 bolt/nut is selected, max working pressure rating is 23MPa(230kgf/cm<sup>2</sup>).

\*34 "PED Conformity" is not applicable for the combination with FM, CSA or NEPSI approvals.

\*37 Not applicable for the combination with "PED Conformity"

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