

# ST3000 New Ace Electric Pressure Transmitter

Issued: Dec. 15, 2000	Page: 1-4-47
Effective: Dec. 1, 2011	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)
JTG940A	35 to 3500kPa (0.35 to 35kgf/cm <sup>2</sup> )	Low pressure Regular service(Silicon oil)
JTG960A	0.7 to 14MPa (7 to 140 kgf/cm <sup>2</sup> )	Medium pressure Regular service(Silicon oil)

Basic model No.      Selections      Options 1  
 - I II III IV V      - VI VII VIII IX X      - Options 2

Options 2 : Refer to page 1-4-52

Basic Model No.	Measuring span	Basic price
	35 to 3500kPa (0.35 to 35kgf/cm <sup>2</sup> )	305
	0.7 to 14MPa (7 to 140kgf/cm <sup>2</sup> )	305

Selections				Additional price			
I	Output	4 to 20mA	1	0			
		Digital output (DE protocol)	3	*1, *2			
		4 to 20mA (HART protocol)	5	*3, *4			
II	Material	Meterbody	Vent/Drain	Wetted parts of			
		SCS14A *32	SUS316	SUS316	E	0	
		SCS14A *32	SUS316	HastelloyC	F	41	
		SCS14A *32	SUS316	Tantalum	H	96	
		SCS14A *32	SUS316	SUS316L	K	40	
		*6 *26	PVC	PVC	Tantalum	P	116
III	Fill Fluid	Regular type (Silicone oil)	1	0			
IV	Process connection	Rc 1/2, top connection	A	10			
		Rc 1/2, bottom connection	B	10			
		*27 Rc 1/2, side connection	C	0			
		1/2 NPT internal thread, top connection	F	10			
		1/2 NPT internal thread, bottom connection	G	10			
		*27 1/2 NPT internal thread, side connection	H	0			
		Rc 1/4, top connection	L	10			
		Rc 1/4, bottom connection	M	10			
		*27 Rc 1/4, side connection	N	0			
		1/4 NPT internal thread, top connection	R	10			
		1/4 NPT internal thread, bottom connection	S	10			
		*27 1/4 NPT internal thread, side connection	T	0			
		V	Bolt/nut	Carbon steel	1	0	
SUS304	2			11			
SUS630	3			35			

## Options 1

VI	Electrical connection / explosion-proof	G1/2, Watertight	X	0
		G1/2, TIIS Flameproof with 1 pc. Of cable gland attached.	2	14
		G1/2, TIIS Flameproof with 2 pcs. Of cable gland attached.	3	23
		G1/2 TIIS Intrinsically Safe	K	5
		G1/2 KOSA Explosionproof	P	5
		1/2 NPT, Watertight	A	0
VII	Building indicatino smart	None	X	0
		0 to 100 % linear scales	1	25
		Engineering unit scales	2	30
VIII	Finish	Standard	X	0
		Corrosion-resistant	A	11
		Corrosion-proof	B	14
		Corrosion-resistant (Silver coating)	D	16
IX	Burnout feature *1	None	X	0
		Upper limit of output at abnormal condition	U	7
		Lower limit of output at abnormal condition	D	7
X	Mounting Bracke	None	X	0
		Carbon steel	1	3
		SUS304	2	10

## Notes

- 1 Digital output (DE protocol) should be selected with upper/lower direction of burn out feature.
- 2 Digital output (DE protocol) can not be combined with an external zero adjustment function.
- 3 HART Communication can not be combined with Special burn-out feature.
- 4 The lowest outoput limit is -1.25%(3.8mA).
- 6 When meterbody cover material is PVC, bolt/nut material of selection "V" should be SUS304.
- 7 In case PVC is selected, not applicable for the combination with code T2, T5, and T6 of Option code.
- 26 Not available for JTG960A.
- 27 Not available for material selection "P".
- 32 SCS14A (equivalent to SUS316) or SUSF316

# ST3000 New Ace Electric Pressure Transmitter

Issued: Dec. 15, 2000	Page: 1-4-48
Effective: Aug. 1, 2011	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)
JTG980A	0.7 to 42MPa (7 to 420kgf/cm <sup>2</sup> ) High pressure	Regular service(Silicon oil)

Basic model No.      Selections      Options 1      - Options 2

                                 - I II III IV V      - VI VII VIII IX X

Options 2 : Refer to page 1-4-52

Basic Model No.	Measuring span	Basic price
JTG980A	0.7 to 42MPa (7 to 420kgf/cm <sup>2</sup> )	315

Selections		Additional price				
I	Output	4 to 20mA	1	0		
		Digital output (DE protocol)	3	*1, *2	0	
		4 to 20mA (HART protocol)	5	*3, *4	5	
II	Material	Meterbody	Vent/Drain	Wetted parts		
		SCS14A *32	SUS316	SUS316	E	0
		SCS14A *32	SUS316	HastellovC	F	41
		Regular type (Silicone oil)			1	0
IV	Process connection	Rc1/2, top connection		A	10	
		Rc 1/2, bottom connection		B	10	
		Rc 1/2, side connection		C	0	
		1/2 NPT internal thread, top connection		F	10	
		1/2 NPT internal thread, bottom connection		G	10	
		1/2 NPT internal thread, side connection		H	0	
		Rc 1/4, top connection		L	10	
		Rc 1/4, bottom connection		M	10	
		Rc 1/4, side connection		N	0	
		1/4 NPT internal thread, top connection		R	10	
		1/4 NPT internal thread, bottom connection		S	10	
		1/4 NPT internal thread, side connection		T	0	
V	Bolt/nut	Carbon steel	1	0		
		SUS304	2	11		
		SUS630	3	60		

Options 1		Additional price		
VI	Electrical connection / explosion-proof	G1/2, Watertight	X	0
		G1/2, TIIS Flameproof with 1 pc. Of cable gland attached.	2	14
		G1/2, TIIS Flameproof with 2 pcs. Of cable gland attached.	3	23
		G1/2 TIIS Intrinsically Safe	K	5
		G1/2 KOSA Explosionproof	P	5
		1/2 NPT, Watertight	A	0
VII	Building indicating smart meter	None	X	0
		0 to 100 % linear scales	1	25
		Engineering unit scales	2	30
VIII	Finish	Standard	X	0
		Corrosion-resistant	A	11
		Corrosion-proof	B	14
		Corrosion-resistant (Silver coating)	D	16
IX	Burnout feature *1	None	X	0
		Upper limit of output at abnormal condition	U	7
		Lower limit of output at abnormal condition	D	7
X	Mounting Bracket	None	X	0
		Carbon steel	1	3
		SUS304	2	10

- Notes
- Digital output (DE protocol) should be selected with upper/lower direction of burn out feature.
  - Digital output (DE protocol) can not be combined with an external zero adjustment function.
  - HART Communication can not be combined with Special burn-out feature.
  - The lowest output limit is -1.25%(3.8mA).
  - SCS14A (equivalent to SUS316) or SUS316

# ST3000 New Ace Electric Pressure Transmitter

Issued: Dec. 15, 2000	Page: 1-4-49
Effective: Dec. 1, 2011	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)
JTG940A	35 to 3500kPa (0.35 to 35kgf/cm <sup>2</sup> ) Low pressure	Oxygen service(Fluorine oil)
JTG960A	0.7 to 14MPa (7 to 140 kgf/cm <sup>2</sup> ) Medium pressure	Oxygen service(Fluorine oil)

Basic model No.      Selections      Options 1      Options 2

- I II III IV V      - VI VII VIII IX X      - Options 2

Options 2 : Refer to page 1-4-52

Basic Model No.	Measuring span	Basic price
	35 to 3500kPa (0.35 to 35kgf/cm <sup>2</sup> )	JTG940A 305
	0.7 to 14MPa (7 to 140kgf/cm <sup>2</sup> )	JTG960A 305

Selections		Additional price				
I	Output	4 to 20mA	1	0		
		Digital output (DE protocol)	3	*1, *2	0	
		4 to 20mA (HART protocol)	5	*3, *4	5	
II	Material	Meterbody cover	Vent/Drain	Wetted parts		
		SCS14A *32	SUS316	SUS316	E	0
		SCS14A *32	SUS316	HastelloyC	F	41
		SCS14A *32	SUS316	Tantalum	H	96
		SCS14A *32	SUS316	SUS316L	K	40
		*6 *26	PVC*7	PVC*7	Tantalum	P
III	Fill Fluid	For oxygen service (Fluorine oil)	2		36	
IV	Process connection	Rc 1/2, top connection	A		10	
		Rc 1/2, bottom connection	B		10	
		*27 Rc 1/2, side connection	C		0	
		1/2 NPT internal thread, top connection	F		10	
		1/2 NPT internal thread, bottom connection	G		10	
		*27 1/2 NPT internal thread, side connection	H		0	
		Rc 1/4, top connection	L		10	
		Rc 1/4, bottom connection	M		10	
		*27 Rc 1/4, side connection	N		0	
		1/4 NPT internal thread, top connection	R		10	
		*27 1/4 NPT internal thread, bottom connection	S		10	
1/4 NPT internal thread, side connection	T		0			
V	Bolt/nut	Carbon steel	1		0	
		SUS304	2		11	
		SUS630	3		35	
Options 1				-		
VI	Electrical connection / explosion-proof	G1/2, Watertight	X		0	
		G1/2, TIIS Flameproof with 1 pc. Of cable gland attached.	2		14	
		G1/2, TIIS Flameproof with 2 pcs. Of cable gland attached.	3		23	
		G1/2 TIIS Intrinsically Safe	K		5	
		G1/2 KOSA Explosionproof	P		5	
		1/2 NPT, Watertight	A		0	
VII	Building indicating smart meter	None	X		0	
		0 to 100 % linear scales	1		25	
		Engineering unit scales	2		30	
VIII	Finish	Standard	X		0	
		Corrosion-resistant	A		11	
		Corrosion-proof	B		14	
		Corrosion-resistant (Silver coating)	D		16	
IX	Burnout feature *1	None	X		0	
		Upper limit of output at abnormal condition	U		7	
		Lower limit of output at abnormal condition	D		7	
X	Mounting Bracket	None	X		0	
		Carbon steel	1		3	
		SUS304	2		10	

## Notes

- Digital output (DE protocol) should be selected with upper/lower direction of burn out feature.
- Digital output (DE protocol) can not be combined with an external zero adjustment function.
- HART Communication can not be combined with Special burn-out feature.
- The lowest output limit is -1.25%(3.8mA).
- When meterbody cover material is PVC, bolt/nut material of selection "V" should be SUS304.
- In case PVC is selected, not applicable for the combination with code T2, T5, and T6 of Option code.
- Not available for JTG960A.
- Not available for material selection "P".
- SCS14A (equivalent to SUS316) or SUSF316

# ST3000 New Ace Electric Pressure Transmitter

Issued: Dec. 15, 2000	Page: 1-4-50
Effective: Aug. 1, 2011	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)
JTG980A	0.7 to 42MPa(7 to 420kgf/cm <sup>2</sup> ) High pressure	Oxygen service(Fluorine oil)

**Basic model No.**      **Selections**      **Options 1**      **Options 2**      Options 2 : Refer to page 1-4-52  
 - I II III IV V      - VI VII VIII IX X

Basic Model No.	Basic price
Measuring span 0.7 to 42MPa (7 to 420kgf/cm <sup>2</sup> ) JTG980A	315

Selections				Additional price	
I	Output	4 to 20mA	1	0	
		Digital output (DE protocol)	3 *1,*2	0	
		4 to 20mA (HART protocol)	5 *3,*4	5	
II	Material	Vent/Drain	Wetted parts		
		SCS14A	SUS316	SUS316 E	0
		SCS14A	SUS316	HastelloyC F	41
III	Fill Fluid	For oxygen service (Fluorine oil)	2	36	
IV	Process connection	Rc 1/2, top connection	A	10	
		Rc 1/2, bottom connection	B	10	
		Rc 1/2, side connection	C	0	
		1/2 NPT internal thread, top connection	F	10	
		1/2 NPT internal thread, bottom connection	G	10	
		1/2 NPT internal thread, side connection	H	0	
		Rc 1/4, top connection	L	10	
		Rc 1/4, bottom connection	M	10	
		Rc 1/4, side connection	N	0	
		1/4 NPT internal thread, top connection	R	10	
		1/4 NPT internal thread, bottom connection	S	10	
		1/4 NPT internal thread, side connection	T	0	
V	Bolt/nut	Carbon steel	1	0	
		SUS304	2	20	
		SUS630	3	60	

Options 1				
VI	Electrical connection / explosion-proof	G1/2, Watertight	X	0
		G1/2, TIIS Flameproof with 1 pc. Of cable gland attach	2	14
		G1/2, TIIS Flameproof with 2 pcs. Of cable gland attach	3	23
		G1/2 TIIS Intrinsically Safe	K	5
		G1/2 KOSA Explosionproof	P	5
		1/2 NPT, Watertight	A	0
VII	Building indicatino smart	None	X	0
		0 to 100 % linear scales	1	25
		Engineering unit scales	2	30
VIII	Finish	Standard	X	0
		Corrosion-resistant	A	11
		Corrosion-proof	B	14
		Corrosion-resistant (Silver coating)	D	16
IX	Burnout feature *2	None	X	0
		Upper limit of output at abnormal condition	U	7
		Lower limit of output at abnormal condition	D	7
X	Mounting Brackel	None	X	0
		Carbon steel	1	3
		SUS304	2	10

**Note**

- 1 Digital output (DE protocol) should be selected with upper/lower direction of burn out feature.
- 2 Digital output (DE protocol) can not be combined with an external zero adjustment function.
- 3 HART Communication can not be combined with Special burn-out feature.
- 4 The lowest outoput limit is -1.25%(3.8mA).
- 27 Not available for material selection "P".
- 32 SCS14A (equivalent to SUS316) or SUSF316

# ST3000 New Ace Electric Pressure Transmitter

Issued: Dec. 15, 2000	Page: 1-4-51
Effective: Dec. 1, 2011	UNIT: 1000YEN

Model	Pressure range/style	Service (Fill fluid)
JTG940A	35 to 3500kPa(0.35 to 35kgf/cm <sup>2</sup> )	Low pressure Chlorine service(Fluorine oil)
JTG960A	0.7 to 14MPa(7 to 140 kgf/cm <sup>2</sup> )	Medium pressure Chlorine service(Fluorine oil)

**Basic model No.**      **Selections**      **Options 1**      **Options 2**      Options 2 : Refer to page 1-4-52

- I II III IV V      - VI VII VIII IX X      - Options 2

Basic Model No.	Measuring span	Basic price
JTG940A	35 to 3500kPa (0.35 to 35kgf/cm <sup>2</sup> )	305
JTG960A	0.7 to 14MPa (7 to 140kgf/cm <sup>2</sup> )	305

Selections		Additional price					
I	Output	4 to 20mA	1	0			
		Digital output (DE protocol)	3	*1, *2	0		
		4 to 20mA (HART protocol)	5	*3, *4	5		
II	Material	Meterbody	Vent/Drain	Wetted parts			
		SCS14A *32	SUS316	Tantalum	H	96	
		*6 *26	PVC *3*7	PVC*7	Tantalum	P	116
III	Fill Fluid	For chlorine service (Fluorine oil)	5		36		
IV	Process connection	Rc 1/2, top connection	A		10		
		Rc 1/2, bottom connection	B		10		
		*27 Rc 1/2, side connection	C		0		
		1/2 NPT internal thread, top connection	F		10		
		1/2 NPT internal thread, bottom connection	G		10		
		*27 1/2 NPT internal thread, side connection	H		0		
		Rc 1/4, top connection	L		10		
		Rc 1/4, bottom connection	M		10		
		*27 Rc 1/4, side connection	N		0		
		1/4 NPT internal thread, top connection	R		10		
		1/4 NPT internal thread, bottom connection	S		10		
		*27 1/4 NPT internal thread, side connection	T		0		
		V	Bolt/nut	Carbon steel	1		0
SUS304	2				11		
SUS630	3				35		
Options 1				-			
VI	Electrical connection / explosion-proof	G1/2, Watertight	X		0		
		G1/2, TIIS Flameproof with 1 pc. Of cable gland attached.	2		14		
		G1/2, TIIS Flameproof with 2 pcs. Of cable gland attached.	3		23		
		G1/2 TIIS Intrinsically Safe	K		5		
		G1/2 KOSA Explosionproof	P		5		
		1/2 NPT, Watertight	A		0		
VII	Building indicating smart meter	None	X		0		
		0 to 100 % linear scales	1		25		
		Engineering unit scales	2		30		
VIII	Finish	Standard	X		0		
		Corrosion-resistant	A		11		
		Corrosion-proof	B		14		
		Corrosion-resistant (Silver coating)	D		16		
IX	Burnout feature *1	None	X		0		
		Upper limit of output at abnormal condition	U		7		
		Lower limit of output at abnormal condition	D		7		
X	Mounting Bracket	None	X		0		
		Carbon steel	1		3		
		SUS304	2		10		

## Notes

- Digital output (DE protocol) should be selected with upper/lower direction of burn out feature.
- Digital output (DE protocol) can not be combined with an external zero adjustment function.
- HART Communication can not be combined with Special burn-out feature.
- The lowest output limit is -1.25%(3.8mA).
- When meterbody cover material is PVC, bolt/nut material of selection "V" should be SUS304.
- In case PVC is selected, not applicable for the combination with code T2, T5, and T6 of Option code.
- Not available for JTG960A.
- Not available for material selection "P".
- SCS14A (equivalent to SUS316) or SUSF316

# ST3000 New Ace Electric Pressure Transmitter

Issued: Spt. 15, 2001	Page: 1-4-52
Effective: Dec. 1, 2009	UNIT: 1000YEN

			Additional prices
Options 2	XX	No options	0
	A2	External Zero adjustment *2	30
	A4	Lightning arrestor	18
	A5	Long vent/drain plugs	10
	B7	For mounting a high load resistance smart meter *23	0
	C1	Color : Red (Munsell 5R4/13)	20
	C2	Color : Yellow (Munsell 2.5Y8/16))	20
	C3	Color : Blue (Munsell 7.5BG7/2)	20
	C7	Process connection ; reverse	0
	D1	Water free finish (included oil free finish)	29
	E6	Water free finish (included oil free finish) High Grade	35
	D2	Oil free finish *16	19
	G1	One elbow (left)	2
	G2	One elbow (right)	2
	G3	2 elbows	4
	J8	Special burn-out feature (3.2mA) *18	20
	T1	Test report	2
	T2	Material certificate *19	21
	T5	Strength calculation sheet *20	15
	T6	Withstand pressure and air tight test *21	40
T8	Traceability certificate	10	
U2	Non-SI unit conformance	0	

Note

- 2 Digital output (DE protocol) can not be combined with an external zero adjustment function.
- 16 When the fill fluid is for oxygen or chlorine service, there is not needed to select this.
- 18 "Lower limit of output at abnormal condition" - code D must be selected for Options 1 "V", Burnout fee
- 19 Available only for material of wetted part.
- 20 When ordering, designed pressure and designed temperature are required.
- 21 When ordering, withstand pressure and airtight test pressure are required.