

ST3000 New Ace Electric Pressure Transmitter

Issued : Spt. 15, 2001

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Effective : Dec. 1, 2009

UNIT : 1000YEN

Model	Pressure range/style	Service (Fill fluid)
JTG940A	35 to 3500kPa (0.35 to 35kgf/cm ²)	Low pressure Regular service(Silicon oil)
JTG960A	0.7 to 14MPa (7 to 140 kgf/cm ²)	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 ²) JTG940A	305
	0.7 to 14MPa (7 to 140kgf/cm ²) 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	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
II	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		
		1/2 NPT, Watertight	A	0		
VII	Building indicating smart	None	X	0		
		0 to 100 % linear scales	1	25		
		Engineering unit scales	2	30		
VII	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 outpout limit is -1.25%(3.8mA).
- When meterbody cover material is PVC, bolt/nut material of selection "V" should be SUS304.
- Not available for JTG960A.
- Not available for material selection "P".
- SCS14A (equivalent to SUS316) or SUSF316

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Model	Pressure range/style	Service (Fill fluid)	
JTG980A	0.7 to 42MPa (7 to 420kgf/cm ²)	High 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	Model	Basic price
	0.7 to 42MPa (7 to 420kgf/cm ²)	JTG980A	315

Selections				Additional price		
I	Output	4 to 20mA	1	0		
		Digital output (DE protocol)	3	0		
		4 to 20mA (HART protocol)	5	5		
II	Material	Meterbody				
		Vent/Drain				
		Wetted parts				
		SCS14A *32	SUS316	SUS316	E	0
		SCS14A *32	SUS316	HastellovC	F	41
II	Fill Fluid	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

VI	Electrical connection / explosion-proof	G1/2, Watertight	X	0
		G1/2, TIIIS Flameproof with 1 pc. Of cable gland attached.	2	14
		G1/2, TIIIS Flameproof with 2 pcs. Of cable gland attached.	3	23
		G1/2, TIIIS intrinsically safe	K	5
		1/2 NPT, Watertight	A	0
VII	Building indicating smart	None	X	0
		0 to 100 % linear scales	1	25
		Engineering unit scales	2	30
VII	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

- 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 output limit is -1.25%(3.8mA).
- 32 SCS14A (equivalent to SUS316) or SUSF316

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Model	Pressure range/style	Service (Fill fluid)
JTG940A	35 to 3500kPa (0.35 to 35kgf/cm ²)	Low pressure Oxygen service(Fluorine oil)
JTG960A	0.7 to 14MPa (7 to 140 kgf/cm ²)	Medium pressure Oxygen service(Fluorine 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 ²)	JTG940A 305
	0.7 to 14MPa (7 to 140kgf/cm ²)	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	PVC	Tantalum	P	116
II	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		
		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, TIIIS Flameproof with 1 pc. Of cable gland attached.	2	14		
		G1/2, TIIIS Flameproof with 2 pcs. Of cable gland attached.	3	23		
		G1/2, TIIIS intrinsically safe	K	5		
		1/2 NPT, Watertight	A	0		
VII	Bulitng indicating smart meter	None	X	0		
		0 to 100 % linear scales	1	25		
		Engineering unit scales	2	30		
VII	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 Brack	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 outoput limit is -1.25%(3.8mA).
- When meterbody cover material is PVC, bolt/nut material of selection "V" should be SUS304.
- Not available for JTG960A.
- Not available for material selection "P".
- SCS14A (equivalent to SUS316) or SUSF316

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Effective : Dec. 1, 2009	UNIT : 1000YEN

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

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

Basic Model No.	Basic price
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 *32 SUS316	SUS316	E	0
		SCS14A *32 SUS316	HastellovC	F	41
II	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, TIS Flameproof with 1 pc. Of cable gland attach	2	14	
		G1/2, TIS Flameproof with 2 pcs. Of cable gland attach	3	23	
		G1/2, TIS intrinsically safe	K	5	
		1/2 NPT, Watertight	A	0	
VII	Building indicating smart	None	X	0	
		0 to 100 % linear scales	1	25	
		Engineering unit scales	2	30	
VII	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 Bracket	None	X	0	
		Carbon steel	1	3	
		SUS304	2	10	

Note

- 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).
- Not available for material selection "P".
- SCS14A (equivalent to SUS316) or SUSF316

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

Selections **Options 1**
Basic model No. **- 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
JTG940A	35 to 3500kPa (0.35 to 35kgf/cm ²)	305
JTG960A	0.7 to 14MPa (7 to 140kgf/cm ²)	305

Selections			Additional price			
I	Output	4 to 20mA	1	0		
		Digital output (DE protocol)	3	0		
		4 to 20mA (HART protocol)	5	5		
II	Material	Meterbody	SCS14A *32	96		
		Vent/Drain	SUS316	116		
		Wetted parts	Tantalum H			
			Tantalum P			
			PVC *3			
			PVC			
II	Fill Fluid	For chlorine service (Fluorine oil)	5	36		
IV	Process connector	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, TIIIS Flameproof with 1 pc. Of cable gland attached	2	14		
		G1/2, TIIIS Flameproof with 2 pcs. Of cable gland attached	3	23		
		G1/2, TIIIS intrinsically safe	K	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		
VII	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.
- 26 Not available for JTG960A.
- 27 Not available for material selection "P".
- 32 SCS14A (equivalent to SUS316) or SUSF316

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			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 chroline 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 fea
- 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.