

ST3000 New Ace Electric Pressure Transmitter

Issued : Spt. 15, 2001	Page : 1-4-47
Effective : Apr. 1, 2007	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 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.			Basic price
	Measuring span	35 to 3500kPa (0.35 to 35kgf/cm ²)	JTG940A
		0.7 to 14MPa (7 to 140kgf/cm ²)	JTG960A
			305
			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 plugs	Wetted parts of center body			
		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	Rc1/2, 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, intrinsically safe *1			6		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 TIIS intrinsically safe and 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.
- 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	0.7 to 42MPa (7 to 420kgf/cm ²)	JTG980A	Basic price
				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 cover	Vent/Drain plugs	Wetted parts of center	
		SCS14A *32	SUS316	SUS316	E
		SCS14A *32	SUS316	HastelloyC	F
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
		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, 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, intrinsically safe *1	6		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 TIIS intrinsically safe and Special burn-out feature.
- The lowest outoput limit is -1.25%(3.8mA).
- 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 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.				Basic price
	Measuring span	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 plugs	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	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, 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, intrinsically safe *1			6					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 TIIS intrinsically safe and 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.
- 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/cm2)	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 - Options 2

Basic Model No.						Basic price	
Measuring span		0.7 to 42MPa (7 to 420kgf/cm2)		JTG980A		315	
						Additional price	
Selections							
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 plugs	Wetted parts of			
		SCS14A *32	SUS316	SUS316	E	0	
		SCS14A *32	SUS316	HastelloyC	F	41	
III	Fill Fluid	For oxygen service (Fluorine oil)		2		36	
IV	Process connection	Rc1/2, top connection		A		10	
		Rc 1/2, bottom connection		B		10	
		5 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		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 attached.		2		14	
		G1/2, TIIS Flameproof with 2 pcs. Of cable gland attached.		3		23	
		G1/2, intrinsically safe *1		6		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 *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 TIIS intrinsically safe and 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)

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.				Basic price
Measuring span	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 plugs	Wetted parts of center							
		SCS14A *32	SUS316	Tantalum	H					96	
		PVC *26	PVC	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						
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, intrinsically safe *1			6					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 TIIS intrinsically safe and 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.
- Not available for JTG960A.
- Not available for material selection "P".
- 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 feature.
- 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.