

ST3000 New Ace Electric Pressure Transmitter

Issued : Spt. 15, 2001	Page : 1-4-45
Effective : Jan. 1, 2003	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 Options 2 : Refer to page 1-4-50
 - I II III IV V - VI VII VIII IX X - Options 2

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

		Additional price
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Selections

I	Output	4 to 20mA	1		0	
		4 to 20mA (Analog FSKCommunication)	2	*3	10	
		Digital output (DE protocol)	3	*1, *2	0	
II	Material	Meterbody cover	Vent/Drain plugs	Wetted parts of center body		
		*8 Carbon steel Zn plating	SUS316	SUS316	A	0
		*8 Carbon steel Zn plating	SUS316	HastelloyC	B	41
		*8 Carbon steel Zn plating	SUS316	Tantalum	D	96
		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, JIS Flameproof with 1 pc. Of cable gland attached.	2		14
		G1/2, JIS 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.
 - Analog FSK Communication can not be combined with Intrinsically safe.
 - When meterbody cover material is PVC, bolt/nut material of selection "V" should be SUS304.
 - This can be selected for the meterbody cover if the process fluid contains hydro-carbon or H₂S which used for Refinery/Petrochemical. In other cases, select Carbon steel Ni plating for meterbody cover.
 - 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 Options 2 Options 2 : Refer to page 1-4-50
 - I II III IV V - VI VII VIII IX X - Options 2

Basic Model No.	Measuring span	Pressure range/style	Model	Basic price
	0.7 to 42MPa (7 to 420kgf/cm ²)		JTG980A	315

Selections					Additional price	
I	Output	4 to 20mA	1		0	
		4 to 20mA(Analog FSKCommunication)	2	*3	10	
		Digital output (DE protocol)	3	*1, *2	0	
II	Material	Meterbody cover	Vent/Drain plugs	Wetted parts of center body		
		*8 Carbon steel Zn plating	SUS316	SUS316	A	0
		*8 Carbon steel Zn plating	SUS316	HastelloyC	B	41
		SCS14A *32	SUS316	SUS316	E	0
		SCS14A *32	SUS316	HastelloyC	F	41
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	
		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, JIS Flameproof with 1 pc. Of cable gland attached.		2	14
		G1/2, JIS 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.
- Analog FSK Communication can not be combined with Intrinsically safe.
- This can be selected for the meterbody cover if the process fluid contains hydro-carbon or H₂S which used for Refinery/Petrochemical. In other cases, select Carbon steel Ni plating for meterbody cover.
- 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 Options 2 : Refer to page 1-4-50
 - I II III IV V - VI VII VIII IX X - Options 2

Basic Model No.	Measuring span	Pressure range	Model	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
		4 to 20mA(Analog FSKCommunication)	2	*3		10
		Digital output (DE protocol)	3	*1, *2		0
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	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, JIS Flameproof with 1 pc. Of cable gland attached.	2			14
		G1/2, JIS 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.
- Analog FSK Communication can not be combined with Intrinsically safe.
- 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 Oxygen service(Fluorine oil)

Basic model No. **Selections** **Options 1** **Options 2** Options 2 : Refer to page 1-4-50
 - I II III IV V - VI VII VIII IX X - Options 2

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

Selections				Additional price		
I	Output	4 to 20mA	1	0		
		4 to 20mA(Analog FSKCommunication)	2	10		
		Digital output (DE protocol)	3	0		
II	Material	Meterbody cover				
		Vent/Drain plugs				
		Wetted parts of center body				
		SCS14A *32	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				Additional price
VI	Electrical connection / explosion-proof	G1/2, Watertight	X	0
		G1/2, JIS Flameproof with 1 pc. Of cable gland attached.	2	14
		G1/2, JIS 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
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

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

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Effective : Jan. 1, 2003	UNIT : 1000YEN

Model	Pressure range/style	Service (Fill fluid)
JTG940A	35 to 3500kPa(0.35 to 35kgf/cm2)	Low pressure
JTG960A	0.7 to 14MPa(7 to 140 kgf/cm2)	Medium pressure

Basic model No. **Selections** **Options 1** **Options 2** Options 2 : Refer to page 1-4-50
 - I II III IV V - VI VII VIII IX X - Options 2

Basic Model No.	Measuring span	Pressure range	Model	Basic price
	35 to 3500kPa (0.35 to 35kgf/cm2)		JTG940A	305
	0.7 to 14MPa (7 to 140kgf/cm2)		JTG960A	305

Selections							Additional price
I	Output	4 to 20mA	1				0
		4 to 20mA(Analog FSKCommunication)	2	*3			10
		Digital output (DE protocol)	3	*1, *2			0
II	Material	Meterbody cover	Vent/Drain plugs	Wetted parts of center body			
		SCS14A *32	SUS316	Tantalum	H		96
		*6 *26 PVC *3	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				0
		SUS304	2				11
		SUS630	3				35
Options 1							
VI	Electrical connection / explosion-proof	G1/2, Watertight	X				0
		G1/2, JIS Flameproof with 1 pc. Of cable gland attached.	2				14
		G1/2, JIS 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

- 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 Analog FSK Communication can not be combined with Intrinsically safe.
- 6 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
	B2	Steam block *22	25
	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) *16, *17	29
	D2	Oil free finish *16, *17	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 choline service, there is not needed to select this.
- 17 The carbon steel for meterbody cover material is not available for this option.
- 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.