

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
JTG960A	0.7 to 14MPa (7 to 140 kgf/cm ²)	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	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			
		*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.	Basic price
Measuring span 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)

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

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
		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.	Basic price
Measuring span 0.7 to 42MPa (7 to 420kgf/cm ²) JTG980A	315

						Additional price
Selections						
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	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, 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	Builing 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.
- 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 1-4-50
 - 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	
		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

- 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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			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.