

# ST3000 Series 900 Electric Pressure Transmitter

|                         |                |
|-------------------------|----------------|
| Issued : Jun. 15, 2001  | Page : 1-1-7   |
| Effective : May 1, 2004 | UNIT : 1000YEN |

## Model STG940 (Low Gage Pressure)

Model No. : STG940 - I II III - 00000 - Option I - Option II

Basic Model No.

|                |                                  |        |
|----------------|----------------------------------|--------|
| Measuring Span | 35 to 3500kPa(0.35 to 35kgf/cm2) | STG940 |
|----------------|----------------------------------|--------|

| Selection I                |                    |  |  | Code             | Price                                | Material Code |     |   |   |   |   |   |   |   |   |   |   |
|----------------------------|--------------------|--|--|------------------|--------------------------------------|---------------|-----|---|---|---|---|---|---|---|---|---|---|
| I                          | Material           | Meter Body Cover   | Adapter Flange                                     | Vent/Drain Plugs | Wetted Parts of Center Body          | A             | B   | D | E | F | H | U | M | P | 8 | 9 |   |
|                            |                    | Carbon steel   | SCS14A*1   | SUS316           | Diaphragm:SUS316L<br>Others : SUS316 | A             | 300 |   |   |   |   |   |   |   |   |   |   |
| Carbon steel               | SCS14A*1           | SUS316   | Diaphragm : Hastelloy C<br>Others : Hastelloy C    | B                | 341                                  |               |     |   |   |   |   |   |   |   |   |   |   |
| Carbon steel               | SCS14A*1           | SUS316   | Diaphragm : Tantalum<br>Others : Tantalum          | D                | 396                                  |               |     |   |   |   |   |   |   |   |   |   |   |
| SCS14A*1                   | SCS14A*1           | SUS316   | Diaphragm:SUS316L<br>Others : SUS316               | E                | 315                                  |               |     |   |   |   |   |   |   |   |   |   |   |
| SCS14A*1                   | SCS14A*1           | SUS316   | Diaphragm : Hastelloy C<br>Others : Hastelloy C    | F                | 351                                  |               |     |   |   |   |   |   |   |   |   |   |   |
| SCS14A*1                   | SCS14A*1           | SUS316   | Diaphragm : Tantalum<br>Others : Tantalum          | H                | 414                                  |               |     |   |   |   |   |   |   |   |   |   |   |
| SCS14A*1                   | SCS14A*1           | SUS316   | Diaphragm:SUS316L<br>Others : SUS316L              | U                | 414                                  |               |     |   |   |   |   |   |   |   |   |   |   |
| PVC                        | PVC                | PVC  | Diaphragm : Hastelloy C<br>Others : Hastelloy C *8 | M                | 353                                  |               |     |   |   |   |   |   |   |   |   |   |   |
| PVC                        | PVC                | PVC  | Diaphragm : Tantalum<br>Others : Tantalum *8       | P                | 416                                  |               |     |   |   |   |   |   |   |   |   |   |   |
| Carbon steel<br>Ni plating | SCS14A*1           | SUS316   | Diaphragm : Hastelloy C<br>Others : Hastelloy C    | 8                | 387                                  |               |     |   |   |   |   |   |   |   |   |   |   |
| Carbon steel<br>Ni plating | SCS14A*1           | SUS316   | Diaphragm:SUS316L<br>Others : SUS316               | 9                | 300                                  |               |     |   |   |   |   |   |   |   |   |   |   |
| II                         | Fill Fluid         | Regular type (Silicone oil)                                      |  |                  | 1                                    | 0             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | For oxygen service (Fluorine oil) *3                             |  |                  | 2                                    | 18            |     |   |   |   |   |   |   |   |   |   |   |
|                            |                    | For chlorine service (Fluorine oil) *3                           |  |                  | 5                                    | 18            |     |   |   |   |   |   |   |   |   |   |   |
| III                        | Process Connection | Front Connection   | Rc1/2 with adapter flange                          |                  | L                                    | 3             | ✓   | ✓ | ✓ | ✓ |   |   |   |   | ✓ | ✓ |   |
|                            |                    |  | 1/2NPT internal thread with adapter flange         |                  | G                                    | 3             | ✓   | ✓ | ✓ | ✓ |   |   |   |   |   | ✓ | ✓ |
|                            |                    |  | Rc1/4 with adapter flange                          |                  | D                                    | 3             | ✓   | ✓ | ✓ | ✓ |   |   |   |   |   | ✓ | ✓ |
|                            |                    |  | 1/4NPT internal thread with adapter flange         |                  | A                                    | 3             | ✓   | ✓ | ✓ | ✓ |   |   |   |   |   | ✓ | ✓ |
|                            |                    |  | 1/4NPT internal thread on head                     |                  | B                                    | 0             | ✓   | ✓ | ✓ | ✓ |   |   |   |   |   | ✓ | ✓ |
|                            |                    | Top or Bottom Connection   | Rc1/2 with adapter flange *7                       |                  | Q                                    | 13            |     |   |   |   |   |   |   | ✓ | ✓ | ✓ | ✓ |
|                            |                    |  | 1/2NPT internal thread with adapter flange *7      |                  | R                                    | 13            |     |   |   |   |   |   |   | ✓ | ✓ | ✓ | ✓ |
|                            |                    |  | Rc1/4 with adapter flange *7                       |                  | S                                    | 13            |     |   |   |   |   |   |   | ✓ | ✓ | ✓ | ✓ |
|                            |                    |  | 1/4NPT internal thread with adapter flange *7      |                  | T                                    | 13            |     |   |   |   |   |   |   | ✓ | ✓ | ✓ | ✓ |
|                            |                    |  | 1/4NPT internal thread on head *7                  |                  | U                                    | 0             |     |   |   |   |   |   |   | ✓ | ✓ | ✓ | ✓ |
|                            |                    |  |  |                  | -                                    |               |     |   |   |   |   |   |   |   |   |   |   |
|                            |                    |  |  |                  | 00000                                |               |     |   |   |   |   |   |   |   |   |   |   |
|                            |                    |  |  |                  | -                                    |               |     |   |   |   |   |   |   |   |   |   |   |
| Options I                  |                    | No options   |  |                  | X                                    | 0             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Lightning arrester   |  |                  | L                                    | 17            | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Built-in indicating smart meter(0 to 100% liner scales)          |  |                  | P                                    | 20            | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Built-in indicating smart meter(engineering unit scales)         |  |                  | R                                    | 30            | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | SUS304 Bolt and nuts material                                    |  |                  | W                                    | 11            | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | SUS630 Bolt and nuts material                                    |  |                  | U                                    | 35            | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Corrosion-resistant finish                                       |  |                  | A                                    | 11            | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Corrosion-proof finish   |  |                  | B                                    | 14            | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Corrosion-resistant finish, silver paint                         |  |                  | D                                    | 16            | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Oil Free finish  |  |                  | K                                    | 10            |     |   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Long Vent/drain plugs  |  |                  | J                                    | 5             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | FM Explosionproof  |  |                  | 3                                    | 8             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | FM Intrinsically safe  |  |                  | 4                                    | 8             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Combination of FM Explosionproof and Intrinsically safe          |  |                  | 5                                    | 11            | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | ATEX Flameproof  |  |                  | 6                                    | 7             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | ATEX Intrinsic safety  |  |                  | 7                                    | 8             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | CSA Explosion-proof  |  |                  | 8                                    | 7             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    |  |  |                  | -                                    |               |     |   |   |   |   |   |   |   |   |   |   |
| Options II                 |                    | No option  |  |                  | XX                                   | 0             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Burn-out feature (Lower limit of value at abnormal condition) *2 |  |                  | A4                                   | 7             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Burn-out feature (Upper limit of value at abnormal condition) *2 |  |                  | A5                                   | 7             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Water free finish (with Oil free finish)                         |  |                  | A7                                   | 17            |     |   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | NEPSI Flameproof   |  |                  | C1                                   | 8             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | NEPSI Intrinsically safe   |  |                  | C2                                   | 8             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Combination of NEPSI Flameproof and Intrinsically safe           |  |                  | C3                                   | 11            | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Custom calibration   |  |                  | C7                                   | 5             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Digital output *38   |  |                  | D5                                   | 0             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | HART communication *5 *38  |  |                  | D7                                   | 5             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | One Elbow  |  |                  | E1                                   | 2             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Two Elbows   |  |                  | E2                                   | 4             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | External zero/span adjustment                                    |  |                  | E5                                   | 30            | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Mounting bracket   |  |                  | E9                                   | 2             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | Side vent/drain top  |  |                  | F1                                   | 4             | ✓   | ✓ | ✓ | ✓ |   |   |   | ✓ | ✓ |   |   |
|                            |                    | Side vent/drain bottom   |  |                  | F2                                   | 4             | ✓   | ✓ | ✓ | ✓ |   |   |   | ✓ | ✓ |   |   |
|                            |                    | Material certificate   |  |                  | H2                                   | 21            | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |
|                            |                    | SI unit  |  |                  | U1                                   | 5             | ✓   | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |   |

\*1 SCS14A (Equivalent SUS316) or SUSF316

\*2 The output current value ranges from 3.0 to 3.8 mA for the lower limit and from 20.8 to 21.8 mA for the upper limit.

\*3 In case "For oxygen or chlorine (Fluorine oil) service" is used, "oil free finish - code K" must be selected.

\*5 Intrinsically safe for NEPSI cannot be selected with -D7.

\*7 Applicable for wetted parts of center body material ;Tantalum,SUS316L

\*8 SUS304 bolts and nuts material (-W) must be selected when PVC meterbody cover is selected (-M or -P).The max. working pressure is 1.5MPa.

\*38 Either one of "Digital output - code D5" or "HART communication -code D7" can be selected at a time.

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## Model STG960 (Medium Gage Pressure)

Model No. : STG960 - I II III - 00000 - Option I - Option II

Basic Model No.

|                |  |        |
|----------------|--|--------|
| Measuring Spar | 0.7 to 14MPa(7 to 140kgf/cm <sup>2</sup> ) | STG960 |
|----------------|--|--------|

| Selection I |  | Code                                   | Price   | Material Code                                   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|-------------|--|--|---|---|-------|-----|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|
| I           | Material   |  |   | A   | B     | D   | E | F | H | U | 8 | 9 |  |  |  |  |  |  |  |  |  |  |
|             | Meter Body Cover   | Adapter Flange                         | Vent/Drain Plugs                              | Wetted Parts of Center Body                     |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Carbon steel   | SCS14A*1                               | SUS316  | Diaphragm:SUS316L<br>Others : SUS316            | A     | 300 |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Carbon steel   | SCS14A*1                               | SUS316  | Diaphragm : Hastelloy C<br>Others : Hastelloy C | B     | 341 |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Carbon steel   | SCS14A*1                               | SUS316  | Diaphragm : Tantalum<br>Others : Tantalum       | D     | 396 |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | SCS14A*1   | SCS14A*1                               | SUS316  | Diaphragm:SUS316L<br>Others : SUS316            | E     | 315 |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | SCS14A*1   | SCS14A*1                               | SUS316  | Diaphragm : Hastelloy C<br>Others : Hastelloy C | F     | 351 |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | SCS14A*1   | SCS14A*1                               | SUS316  | Diaphragm : Tantalum<br>Others : Tantalum       | H     | 414 |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | SCS14A*1   | SCS14A*1                               | SUS316  | Diaphragm:SUS316L<br>Others : SUS316L           | U     | 414 |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Carbon steel<br>Ni plating                                       | SCS14A*1                               | SUS316  | Diaphragm : Hastelloy C<br>Others : Hastelloy C | 8     | 387 |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Carbon steel<br>Ni plating                                       | SCS14A*1                               | SUS316  | Diaphragm:SUS316L<br>Others : SUS316            | 9     | 300 |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
| II          | Fill Fluid   | Regular type (Silicone oil)            |   |   | 1     | 0   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  | For oxygen service (Fluorine oil) *3   |   |   | 2     | 18  |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  | For chlorine service (Fluorine oil) *3 |   |   | 5     | 18  |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
| III         | Process Connection   | Front Connection                       | Rc1/2 with adapter flange                     |   | L     | 3   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  |  | 1/2NPT internal thread with adapter flange    |   | G     | 3   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  |  | Rc1/4 with adapter flange                     |   | D     | 3   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  |  | 1/4NPT internal thread with adapter flange    |   | A     | 3   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  |  | 1/4NPT internal thread on head                |   | B     | 0   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  |  | Rc1/2 with adapter flange *7                  |   | Q     | 13  |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  | Top or Bottom Connection               | 1/2NPT internal thread with adapter flange *7 |   | R     | 13  |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  |  | Rc1/4 with adapter flange *7                  |   | S     | 13  |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  |  | 1/4NPT internal thread with adapter flange *7 |   | T     | 13  |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  |  | 1/4NPT internal thread on head *7             |   | U     | 0   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  |  |   |   | -     |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  |  |   |   | 00000 |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  |  | -   |   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
| Options I   | No options   |  | X   | 0   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Lightning arrester   |  | L   | 17  |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Built-in indicating smart meter(0 to 100% liner scales)          |  | P   | 20  |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Built-in indicating smart meter(engineering unit scales)         |  | R   | 30  |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | SUS304 Bolt and nuts material *11                                |  | W   | 11  |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | SUS630 Bolt and nuts material                                    |  | U   | 35  |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Corrosion-resistant finish                                       |  | A   | 11  |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Corrosion-proof finish   |  | B   | 14  |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Corrosion-resistant finish, silver paint                         |  | D   | 16  |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Oil Free finish  |  | K   | 10  |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Long Vent/drain plugs  |  | J   | 5   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | FM Explosionproof  |  | 3   | 8   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | FM Intrinsically safe  |  | 4   | 8   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Combination of FM Explosionproof and Intrinsically safe          |  | 5   | 11  |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | ATEX Flameproof  |  | 6   | 7   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | ATEX Intrinsic safety  |  | 7   | 8   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | CSA Explosion-proof  |  | 8   | 7   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             |  |  | -   |   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
| Options II  | No option  |  | XX  | 0   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Burn-out feature (Lower limit of value at abnormal condition) *2 |  | A4  | 7   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Burn-out feature (Upper limit of value at abnormal condition) *2 |  | A5  | 7   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Water free finish (with Oil free finish)                         |  | A7  | 17  |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | NEPSI Flameproof   |  | C1  | 8   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | NEPSI Intrinsically safe   |  | C2  | 8   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Combination of NEPSI Flameproof and Intrinsically safe           |  | C3  | 11  |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Custom calibration   |  | C7  | 5   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Digital output *38   |  | D5  | 0   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | HART communication *5 *38  |  | D7  | 5   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | One Elbow  |  | E1  | 2   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Two Elbows   |  | E2  | 4   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | External zero/span adjustment                                    |  | E5  | 30  |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Mounting bracket   |  | E9  | 2   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Side vent/drain top  |  | F1  | 4   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Side vent/drain bottom   |  | F2  | 4   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | Material certificate   |  | H2  | 21  |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |
|             | SI unit  |  | U1  | 5   |       |     |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |

\*1 SCS14A (Equivalent SUS316) or SUSF316

\*2 The output current value ranges from 3.0 to 3.8 mA for the lower limit and from 20.8 to 21.8 mA for the upper limit.

\*3 In case "For oxygen or chlorine (Fluorine oil) service" is used, "oil free finish - code K" must be selected.

\*5 Intrinsically safe for NEPSI cannot be selected with -D7.

\*7 Applicable for wetted parts of center body material ;Tantalum,SUS316L

\*11 When SUS304 bolt/nut is selected, max working pressure rating is 7MPa(70kgf/cm<sup>2</sup>).

\*38 Either one of "Digital output - code D5" or "HART communication -code D7" can be selected at a time.

# ST3000 Series 900 Electric Pressure Transmitter

|                         |                |
|-------------------------|----------------|
| Issued : Jun. 15, 2001  | Page : 1-1-9   |
| Effective : May 1, 2004 | UNIT : 1000YEN |

## Model STG981 (High Gage Pressure)

Model No. : STG981 - I II III - 00000 - Option I - Option II

Basic Model No.

|                |                               |        |
|----------------|-------------------------------|--------|
| Measuring Span | 0.7 to 42MPa(7 to 420kgf/cm2) | STG981 |
|----------------|-------------------------------|--------|

| Selection I |                            |                                      | Code                   | Price   | Material Code |    |   |   |   |   |
|-------------|----------------------------|--------------------------------------|------------------------|---|---------------|----|---|---|---|---|
| I           | Material                   | Meter Body Cover                     | Vent/Drain Plugs       | Wetted Parts of Center Body                     | A             | B  | E | F | 8 | 9 |
|             | Carbon steel               | SUS316                               |                        | Diaphragm:SUS316L<br>Others : SUS316            | A             |    |   |   |   |   |
|             | Carbon steel               | SUS316                               |                        | Diaphragm : Hastelloy C<br>Others : Hastelloy C | B             |    |   |   |   |   |
|             | SCS14A*1                   | SUS316                               |                        | Diaphragm:SUS316L<br>Others : SUS316            | E             |    |   |   |   |   |
|             | SCS14A*1                   | SUS316                               |                        | Diaphragm : Hastelloy C<br>Others : Hastelloy C | F             |    |   |   |   |   |
|             | Carbon steel<br>Ni plating | SUS316                               |                        | Diaphragm : Hastelloy C<br>Others : Hastelloy C | 8             |    |   |   |   |   |
|             | Carbon steel Ni<br>plating | SUS316                               |                        | Diaphragm:SUS316L<br>Others : SUS316            | 9             |    |   |   |   |   |
| II          | Fill Fluid                 | Regular type (Silicone oil)          |                        | 1   | 0             | ✓  | ✓ | ✓ | ✓ | ✓ |
|             |                            | For oxygen service (Fluorine oil) *3 |                        | 2   | 18            |    |   | ✓ |   |   |
| III         | Process Connection         | Top or Bottom Connection             | Rc1/4                  |   | S             | 10 | ✓ | ✓ | ✓ | ✓ |
|             |                            |                                      | 1/4NPT internal thread |   | T             | 10 | ✓ | ✓ | ✓ | ✓ |

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| Options I  | Code | Price | A | B | E | F | 8 | 9 |
|--|------|-------|---|---|---|---|---|---|
| No options   | X    | 0     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Lightning arrester                                       | L    | 17    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Built-in indicating smart meter(0 to 100% liner scales)  | P    | 20    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Built-in indicating smart meter(engineering unit scales) | R    | 30    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SUS304 Bolt and nuts material *12                        | W    | 11    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SUS630 Bolt and nuts material                            | U    | 60    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Corrosion-resistant finish                               | A    | 11    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Corrosion-proof finish                                   | B    | 14    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Corrosion-resistant finish, silver paint                 | D    | 16    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Oil Free finish  | K    | 10    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Long Vent/drain plugs                                    | J    | 5     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| FM Explosionproof  | 3    | 8     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| FM Intrinsically safe                                    | 4    | 8     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Combination of FM Explosionproof and Intrinsically safe  | 5    | 11    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ATEX Flameproof  | 6    | 7     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| ATEX Intrinsic safety                                    | 7    | 8     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CSA Explosion-proof                                      | 8    | 7     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

| Options II   | Code | Price | A | B | E | F | 8 | 9 |
|--|------|-------|---|---|---|---|---|---|
| No option  | XX   | 0     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Burn-out feature (Lower limit of value at abnormal condition) *2 | A4   | 7     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Burn-out feature (Upper limit of value at abnormal condition) *2 | A5   | 7     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Water free finish (with Oil free finish)                         | A7   | 17    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| NEPSI Flameproof   | C1   | 8     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| NEPSI Intrinsically safe   | C2   | 8     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Combination of NEPSI Flameproof and Intrinsically safe           | C3   | 11    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Custom calibration   | C7   | 5     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Digital output *38   | D5   | 0     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| HART communication *5 *38  | D7   | 5     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| One Elbow  | E1   | 2     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Two Elbows   | E2   | 4     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| External zero/span adjustment                                    | E5   | 30    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Mounting bracket   | E9   | 2     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| PED (97/23/EC) Conformity *34                                    | H1   | 40    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Material certificate   | H2   | 21    | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Max working pressure 20MPa                                       | H3   | 0     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SI unit  | U1   | 5     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

\*1 SCS14A (Equivalent SUS316) or SUSF316

\*2 The output current value ranges from 3.0 to 3.8 mA for the lower limit and from 20.8 to 21.8 mA for the upper limit.

\*3 In case "For oxygen or chlorine (Fluorine oil) service" is used, it's recommended to select "oil free finish - code K"

\*5 Intrinsically safe for NEPSI cannot be selected with -D7.

\*12 When SUS304 bolt/nut is selected, max working pressure rating is 23MPa(230kgf/cm2).

\*34 "PED Conformity" is not applicable for the combination with FM, CSA or NEPSI approvals.

\*38 Either one of "Digital output - code D5" or "HART communication -code D7" can be selected at a time.