No. SS2-GTX00G-0100

Specification

Advanced Transmitter Gauge Pressure Transmitters

Model GTX60G/GTX71G/GTX82G

OVERVIEW

azbi

Advanced Transmitter is a microprocessor-based smart transmitter that features high performance and excellent stability. Capable of measuring gas, liquid, vapor, and liquid levels, it transmits 4 to 20 mA DC analog and digital signals according to the measured pressure.

It can also execute two-way communications between the communicator, thus facilitating self-diagnosis, range resetting, and automatic zero/span adjustment.

SFN, HART and FOUNDATION Fieldbus are available.

* Refer to SS2-GTX00Z-0100 for FOUNDATION Fieldbus type for the items marked with [*].

FEATURES

High performance and stability

- Unique characterization and composite semiconductor sensors realize high accuracy up to 0.04 % F.S.
- Our proven sensor technology enables Long-term stability up to 0.1 % of URL per 10-year.

Wide measuring range (range ability)

- A wide measuring range is available from a single model. This feature is highly effective in taking measurement over a wide range and reducing the need for inventory.
- Model GTX60G: 17.5 to 3500 kPa (range ability: 200 to 1)

A diverse lineup

- A wide range of models is available to meet user requirements for low, standard, and high pressures.
- A wide variety of corrosion-resistant materials for wetted parts is also available.



Remote communication

• Two-way communication using digital output facilitates self-diagnosis, range resetting, automatic zero adjustment, and other operations.

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PRODUCT APPROVALS [*]

FM Explosionproof for Division System/ Flameproof for Zone System (Code F1)

Explosionproof for Class I, Division 1, Groups A, B, C and D; Class I, Zone 1, AEx d IIC Dust-Ignitionproof for Class II, III, Division 1, Groups E, F

T5 $-40 \,^{\circ}\text{C} \le T_{amb} \le +85 \,^{\circ}\text{C}$ Hazardous locations Indoor/Outdoor Type 4X, IP67 Factory sealed, conduit seal not required for Division applications Caution - Use supply wires suitable for 5 $\,^{\circ}\text{C}$ above surrounding ambient

FM Intrinsic Safety (Code F2)

IS/I, II, III/1/ABCDEFG/T4; $-40 \text{ }^{\circ}\text{C} \le \text{T}_{amb} \le +60 \text{ }^{\circ}\text{C}$; 80395278, 80395279, 80395280; Entity; TYPE 4X; IP67 I/0/AEx ia/IIC/T4; $-40 \text{ }^{\circ}\text{C} \le \text{T}_{amb} \le +60 \text{ }^{\circ}\text{C}$; 80395278, 80395279, 80395280; Entity; TYPE 4X; IP67 Entity Parameters: Vmax (Ui)=30 Volts, Imax (Ii)=100 mA, Pi=1 W, Ci=10 nF, Li=0.5 mH

FM Nonincendive (Code F5)

NI/I/2/ABCD/T4; $-40 \degree C \le T_{amb} \le +60 \degree C$; 80395494; NIFW; TYPE 4X; IP67 NI/I/2/IIC/T4; $-40 \degree C \le T_{amb} \le +60 \degree C$; 80395494; NIFW; TYPE 4X; IP67 S/II, III/1/EFG/T4; $-40 \degree C \le T_{amb} \le +60 \degree C$; 80395494; NIFW; TYPE 4X; P67 Nonincendive Field Wiring Parameters: Vmax (Ui)=30 Volts, Ci=10 nF, Li=0.5 mH

Combination of F1, F2 and F5 (Code F6)

ATEX Flameproof and Dust Certifications

(Code A1)



 E_X KEMA 08ATEX0004 X

II 1/2 G Ex db IIC T6 Ga/Gb -30 °C \leq Tamb \leq +75 °C Tprocess \leq 85 °C II 1/2 G Ex db IIC T5 Ga/Gb -30 °C \leq Tamb \leq +80 °C Tprocess \leq 100 °C II 1/2 G Ex db IIC T4 Ga/Gb -30 °C \leq Tamb \leq +80 °C Tprocess \leq 110 °C II 2 D Ex db IIIC T85 °C Db -30 °C \leq Tamb \leq +75 °C Tprocess \leq 85 °C II 2 D Ex db IIIC T100 °C Db -30 °C \leq Tamb \leq +75 °C Tprocess \leq 100 °C II 2 D Ex db IIIC T110 °C Db -30 °C \leq Tamb \leq +75 °C Tprocess \leq 110 °C Caution - Use supply wires suitable for 5 °C above surrounding ambient

ATEX Intrinsic Safety and Dust Certifications

(Code A2)



II 1 G Ex ia IIC T4 Ga -30 °C≤T_{amb}≤+60 °C Tprocess=105 °C IP66/IP67

ELECTRICAL PARAMETERS: Ui=30V, li=93mA, Pi=1W, Ci=5nF, Li=0.5mH

II 1 D Ex ia IIIC T105 °C Da -30 °C≤Tamb≤+60 °C Tprocess= 105 °C IP66/IP67

II 3 G Ex ic IIC T4 Gc -30 °C≤Tamb≤+60 °C Tprocess=110 °C IP66/IP67

ELECTRICAL PARAMETERS: Ui=30V, Ci=5nF, Li=0.5mH

NEPSI Flameproof and Dust Certifications

(Code N1)

Ex d IIC T6 Gb; Ex tD A21 IP66/IP67 T85 °C Tprocess= 80 °C; -30 °C \leq Tamb \leq +75 °C Ex d IIC T5 Gb; Ex tD A21 IP66/IP67 T100 °C Tprocess= 95 °C; -30 °C \leq Tamb \leq +80 °C Ex d IIC T4 Gb; Ex tD A21 IP66/IP67 T115 °C Tprocess= 110 °C; -30 °C \leq Tamb \leq +80 °C

NEPSI Intrinsic Safety Certification (Code N2)

Ex ia IIC T4 Ga -40 °C≤Tamb≤+60 °C Tprocess=105 °C IP66/IP67

Ex ic IIC T4 Gc -40 °C≤Tamb≤+60 °C Tprocess=110 °C IP66/IP67

ELECTRICAL PARAMETERS: Ui=30V, li=100mA, Pi=1W, Ci=13nF, Li=0.5mH

Use cable suitable for 5 °C above ambient temperature

IECEx Flameproof and Dust Certifications(Code E1)

Certificate No. IECEx KEM 08.0001 X

 $\begin{array}{l} \mbox{Ex db IIC T6 Ga/Gb -30 °C \leq $T_{amb} \leq +75 °C $Tprocess \leq 85 °C$ \\ \mbox{Ex db IIC T5 Ga/Gb -30 °C \leq $T_{amb} \leq +80 °C $Tprocess \leq 100 °C$ \\ \mbox{Ex db IIC T4 Ga/Gb -30 °C \leq $T_{amb} \leq +80 °C $Tprocess \leq 110 °C$ \\ \mbox{Ex tb IIIC T85 °C Db -30 °C \leq $T_{amb} \leq +75 °C $Tprocess \leq 85 °C$ \\ \mbox{Ex tb IIIC T100 °C Db -30 °C \leq $T_{amb} \leq +75 °C $Tprocess \leq 100 °C$ \\ \end{array}$

Caution - Use supply wires suitable for 5 $^{\rm o}{\rm C}$ above surrounding ambient

IECEx Intrinsic Safety and Dust Certifications(Code E2)

Certificate No. IECEx KEM 07.0058 X Ex ia IIC T4 Ga -30 °C≤ Tamb≤+60 °C Tprocess=105 °C IP66/IP67 ELECTRICAL PARAMETERS: Ui=30V, li=93mA, Pi=1W, Ci=5nF, Li=0.5mH Ex ia IIIC T105 °C Da -30 °C ≤Tamb≤ +60 °C Tprocess=105 °C IP66/IP67 Ex ic IIC T4 Gc -30 °C≤ Tamb≤ +60 °C Tprocess= 110 °C IP66/ IP67 ELECTRICAL PARAMETERS: Ui=30V, Ci=5nF, Li=0.5mH

Azbil Corporation

KCs Flameproof (Code K1) 11-AV4BO-0323

Ex d IIC T6 -30 °C \leq Tamb \leq +75 °C Tprocess=85 °C

Ex d IIC T5 -30 °C≤ Tamb≤+80 °C Tprocess=100 °C

Ex d IIC T4 -30 °C≤ Tamb≤+80 °C Tprocess=110 °C

18-AV4BO-0254X

Ex tD A21 T85 °C -30 °C \leq Tamb \leq +75 °C -30 °C \leq Tprocess \leq 85 °C

Ex tD A21 T100 °C -30 °C
≤ Tamb≤+75 °C -30 °C
≤ T
process≤ 100 °C

Ex tD A21 T110 °C -30 °C
≤ Tamb≤+75 °C -30 °C≤ T
process ≤110 °C

TIIS Flameproof (Code J1)

Ex d IIC T4

Use cables with the maximum allowable temperature, 70° C in case ambient temperature excess 50° C

TAIWAN Flameproof (Code T1)

Certificate No.(2015)00113

Ex db IIC T6 Gb X -30° C≤ Tamb ≤+75° C Tprocess≤85 °C

Ex db IIC T5 Gb X -30° C \leq Tamb \leq +80° C Tprocess \leq 100 °C

Ex db IIC T4 Gb X -30° C≤ Tamb ≤+80° C Tprocess≤110 °C

Caution - Use supply wires suitable for 5 $^{\rm o}{\rm C}$ above surrounding ambient

Please refer to specification, "SS2-GTX00Z-0100" for the Fieldbus code below.

FM Intrinsic safety ia/ic FISCO and Fieldbus(Code F4)

FM Fieldbus Nonincendive(Code F7)

ATEX Intrinsic safety ia FISCO and Fieldbus(Code A4)

ATEX Intrinsic safety ic FISCO and Fieldbus(Code A7)

IECEx Intrinsic safety ia FISCO and Fieldbus(Code E4)

IECEx Intrinsic safety ic FISCO and Fieldbus(Code E7)

EMC Conformity [*]

EN 61326-1 (industrial electromagnetic environment) EN 61326-2-3

PED Conformity (97/23EC)

The maximum pressures applicable under the Sound Engineering Practice (SEP) section of the Pressure Equipment Directive depend on the type of fluid measured, as shown in the table below.

Measured fluid	Group*	Pressure	Applicable models
Cas	1	200 bar (20 MPa)	All models except GTX82G
Gas	2	1,000 bar (100 MPa)	All models
T · · 1	1	500 bar (50 MPa)	All models
Liquid	Liquid 2		All models

Note) Group 1 comprises fluids defines as: explosive, extremely flammable, highly flammable, flammable, very toxic, toxic and oxidizing.

Group 2 comprises all other fluids not refer to group 1

Any model having a maximum working pressure that is higher than the pressure corresponding to its group does not conform to SEP.

Models GTX82G conform to PED according to Module A.

FUNCTIONAL SPECIFICATIONS

Type of protection

NEMA 3 and 4X IEC IP66/67

Measuring span/Setting range/Overload Resistance value

Model	Measuring Span Setting Range		Overload Resistance value
GTX	17.5 to 3500 kPa	–100 to +3500 kPa	5250 kPa
60G	{0.175 to 35 kgf/cm ² }	{-1 to +35 kgf/cm ² }*1	${52.5 \text{ kgf/cm}^2}$
GTX	0.7 to 14 MPa	-0.1 to +14 MPa	21 MPa
71G	{7 to 140 kgf/cm ² }	$\{-1 \text{ to } +140 \text{ kgf/cm}^2\}^{*2}$	{210 kgf/cm ² }
GTX	0.7 to 42 MPa	-0.1 to +42 MPa	63 MPa
82G	{7 to 420 kgf/cm ² }	$\{-1 \text{ to } +420 \text{ kgf/cm}^2\}^{*3}$	{630 kgf/cm ² }

- Note) *1. With PVC parts, the maximum working pressure is 1.5 MPa {15 kgf/cm²}, overload resistance value is 2.25 MPa.
 - *2. With 304 SST or 316 SST bolts and nuts, the maximum working pressure is 10MPa{200kgf/cm²}, over resistance value is 15MPa{150kgf/cm²}.
 - *3. With 304 SST or 316 SST bolts and nuts, the maximum working pressure is 20MPa{200kgf/cm²} for Process connection code P,R,T and W. For Process connection code S and Y, the maximum working pressure is 23MPa{230kgf/cm²} Overload resistance value is 30MPa {300kgf/cm²} for Process connection code P, R,T and W. For Process connection code S and Y, the maximum working pressure is 34.5MPa{345kgf/cm²}



Figure 1. Working pressure and temperature of wetted parts section (for general purpose models)





Power Supply [★]

12.5 to 42 V DC

Limited to 12.5 to 30 V DC for intrinsic safety, Nonincendive types

Power Supply voltage and load resistance characteristics [\star]

See Figure 3.

Limited to Load resistance: 250 to 1345 Ω for SFN or DE communication. 250 to 600 Ω for HART communication. Power supply voltage: 12.5 to 30 V DC for intrinsic safety, Nonincendive types



Figure 3. Supply voltage vs. load resistance characteristics

Note) For communication with a communicator, a load resistance of 250 Ω or more is necessary.

Output [*]

Analog output (4 to 20 mA DC) with DE protocol Analog output (4 to 20 mA DC) with HART protocol Digital output (DE protocol)

Output signal [*]

3.6 to 21.6 mA 3.8 to 20.5 mA (NAMUR NE43 compliant)

Failure Alarm [★]

Upper: 21.6 mA or more Lower: 3.6 mA or less

Ambient temperature limit

Normal operating range

-40 to +85 °C for general purpose models

-10 to +75 °C for oxygen and chlorine models

-25 to +80 °C for models with digital indicators 0 to +55 °C for models with PVC meterbody covers

-20 to + 60 °C for TIIS explosion proof model

Operative limits

-50 to + 93 °C for general purpose models

- -40 to + 80 °C for oxygen and chlorine models
- -30 to +85 °C for models with digital indicators
- -10 to +60 °C for models with PVC meterbody covers
- -20 to + 60 °C for TIIS explosion proof model

Transportation and storage conditions

Without indicators:-50 to + 85 °C With indicators:-25 to 80 °C -10 to + 60 °C for models with PVC meterbody covers

Temperature ranges of wetted parts

Normal operating range

-40 to + 110 °C for general purpose models -20 to + 75 °C for oxygen and chlorine models 0 to + 55 °C for models with PVC meterbody covers -20 to + 110 °C for TIIS explosion proof model

Operative limits

-50 to + 115 °C for general purpose models

-40 to +80 °C for oxygen and chlorine models

-10 to + 60 °C for models with PVC meterbody covers

-20 to + 110 °C for TIIS explosion proof model

Ambient humidity limits

5 to 100 % RH

Stability against supply voltage change

±0.005 % FS/V

Response time [★]

Below 100 msec. (when damping time is set to 0 sec.)

Damping time [★]

Selectable from 0 to 128 sec. (HART) Selectable from 0 to 32 sec. in ten stages (SFN)

Zero Stability

±0.1 % of URL per 10 year (model GTX60G) ±0.2 % of URL per 10 year (model GTX71G and 82G)

Lightning protection [*]

Applicable Standards; IEC 61000-4-5 Peak value of current surge (80/20 μ sec.): 6000 A

Vibration characteristics:

Amplitude: 0.42mm / Frequency: 5 to 60 Hz Acceleration: 29.4 m/s² (3G)/60 to 200 Hz

Shock characteristics:

Acceleration 9.8 m/s² (1G)

Indicator

The digital LCD indicator (optional) shows the output in percentage or in engineering units. Range for engineering

unit is from -99999 to 99999 when set at the factory, and from -19999 to 19999 when using the communicator. Specify the following items when placing order with engineering units,

- Pressure range
- Engineering unit of pressure
- Method of display, either linear or square-root.

These data may be set or changed using the communicator.

OPTIONAL SPECIFICATIONS

Oil free finish

The transmitter is shipped with oil-free wetted parts.

External zero/span adjustment function

The transmitter can be easily adjusted to zero or span in the field.

Indicator must be selected to enable this option. Fieldbus type does not have span adjustment.

Elbow

This is an adaptor for changing the electrical conduit connection port from the horizontal to the vertical direction, if required by wiring conditions in the field. One or two elbows may be used as needed.

Conformance to Non SI units

We deliver transmitters set to any Non SI units as specified.

Safety Transmitter

Select this option to be used as a component of Safety Instrument System (SIS). Models GTX____ is complied with IEC61508, certified according to Safety Integrity Level2 (SIL-2) This option is not applicable for FOUNDATION Fieldbus type, DE communication type, external zero/span adjustment (option A2), and Alarm output (option Q7).

Alarm Output (contact output)

Contact output is prepared as alarm output when alarm (Output Alarm/Sensor Temp. Alarm) condition is detected. It can be set to or Normally Close. Contact output type : One open collector (NPN) Contact rating: 30 V DC max., 30 mA DC max. Residual voltage at output ON: 3.0 V max. Operating mode: Normally Open (default) Normally Close is not recommended. When this option is selected, CHECK terminals for current check cannot be used. This option is not applicable for FOUNDATION Fieldbus type,

and with intrinsic safety, Nonincendive types.

Advanced diagnostics [*]

This option is applicable for FOUNDATION Fieldbus type. Refer to SS2-GTX00Z-0100.

Custom calibration

Calibrate for the specified pressure range at the factory.

Long vent drain:

Maintenance, process conditions, and safety are addressed

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Moisture-free finish (including oil-free finish):

Shipped with water content and oil content removed from the wetted part. (A small amount of fluorine oil is applied to vent/drain plugs in order to prevent sticking.)

Test report:

Shows the results of having tested the appearance, input output characteristics, insulation resistance, dielectric strength, etc., of the transmitter.

Mill sheet:

Shows data related to the chemical composition, heat treatment condition, and mechanical properties of the wetted part material.

Test report (with traceability certificate):

Comprised of three documents: a traceability diagram, a calibration certificate, and a test report.

Withstand pressure and air tight test (general-purpose use):

Shows the results of the wetted part withstand pressure test (10 minutes) and air tight test (10 minutes).

Strength calculation sheet:

Shows the results of having calculated the strength of the meter body cover, flanges, and bolts.

PHYSICAL SPECIFICATIONS

Materials

Fill fluid

Silicone oil for general purpose models Fluorine oil for oxygen and chlorine models

Center body 316 SST

Transmitter case Aluminum alloy, CF8M (Equivalent to 316 SST)

Meter body cover flange SCS14A (Equivalent to 316 SST) or 316 SST, PVC

Bolts and nuts (for fastening meter body cover)

Carbon steel (SNB7), 304 SST, 316 SST, 630 SST

O-ring NBR

For Wetted parts

Adapter flange (option) SCS14A (Equivalent to 316 SST), PVC

Center body

316 SST (Diaphragm 316L SST) ASTM B575 (Equivalent to Hastelloy C-276), Tantalum, 316L SST

Vents and plugs

316 SST, PVC

Gaskets PTFE

Mounting Bracket

Bracket 304 SST

U-bolt and nuts 304 SST

Paint

Standard: Baked acrylic paint Corrosion-proof: Baked urethane paint

Color

Housing: Silver N-8.2 Cap: azbil bordeaux 2.5R 2.25/5

Weight

Approx. 3.4 kg (model GTX60G) Approx. 3.7 kg (model GTX71G) Approx. 6.3 kg (model GTX82G)

INSTALLATION

Electrical connection

G 1/2 internal thread, 1/2 NPT internal thread, M20 internal thread.

Grounding

Resistance 100 Ω max.

Mounting

Can be installed on a 2-inch horizontal or vertical pipe (can be directly mounted on a process pipe)

Process connection

Rc 1/2, 1/2 NPT internal thread and Rc 1/4, 1/4 NPT internal thread.

TRANSMITTER HANDLING NOTES

To get the most from the performance this transmitter can offer, please use it properly noting the points mentioned below. Before using it, please read the Instruction Manual.

Transmitter installation notes

WARNING

- When installing the transmitter, ensure that gaskets do not protrude from connecting points into the process (such as adapter flange connection points and connecting pipes and flanges). Failure to do so may cause a leak of process fluid, resulting in harm from burns, etc. In addition, if the process fluid contains toxic substances, take safety measures such as wearing goggles and a mask to prevent contact with the skin and eyes and to prevent inhalation.
- Use the transmitter within the operating ranges stated in the specifications (for explosion-proofing, pressure rating, temperature, humidity, voltage, vibration, shock, mounting direction, atmosphere, etc.). Using the transmitter outside the operating conditions may cause device failure or fire, resulting in a harmful physical risk of burning or the like.
- When performing wiring work in explosion-proof areas, follow the work method specified in the explosion-proof guidelines.

- After installation, do not use the transmitter as a foothold or put your weight on it. Doing so may cause damage.
- Be careful not to hit the glass indicator with tools etc. This could break the glass and cause injury.
- The transmitter is heavy. Wear safety shoes and take care when installing it.
- Impact to transmitter can damage sensor module.

Wiring notes

• To avoid shocks, do not perform electrical wiring work with wet hands or with live wires.

- Do wiring work properly in conformance with the specifications. Wiring mistakes may result in malfunction or irreparable damage to the instrument.
- Use a power supply that conforms to the specifications. Use of an improper power supply may result in malfunction or irreparable damage to the instrument.
- Use a power supply with overcurrent protection for this instrument.

Handling precautions for HART specification devices

- If you need to operate with a secondary host (HART communicator, etc.), set the communication interval of the primary host (DCS, device management system) to 8 seconds or more, or suspend communication from the primary host. If the primary host repeats HART communication within 8 seconds, the request from the secondary host may not be received (communication may not be possible).
- If electrical noise in the environment prevents HARTcommunications with the host, take countermeasures such as separating the signal cables from the source of the noise, improving the grounding, changing to shielded signal cables, etc. Even if noise interferes with HART communications, the 4–20 mA analog signal will be unaffected and can be used for control.
- If this product is being operated in multidrop mode, there is a limit to the number of devices that can be used. If you are using multidrop mode, please consult with us.

PERFORMANCE SPECIFICATIONS

Reference accuracy

Shown for each item are the percentage ratio for x (kPa), which is the greatest value of either the upper range value (URV)^{*1}, the lower range value (LRV)^{*2} or the span.

Model GTX60G (for regular type)

Material of wetted parts: Diaphragm; 316L SST, Others; 316 SST

Reference accuracy *3 *4 *5 *6		±0.04 %	(For <i>x</i> ≥350 kPa {3.5 kgf/cm²})
		$\pm (0.008+0.032 \times \frac{350}{x})\%$	(For <i>x</i> <350 kPa {3.5 kgf/cm ² })
Ambient Temperature effect	Combined shift:	±0.15 %	(For <i>x</i> ≥350 kPa {3.5 kgf/cm²})
(Shift from the set range) Change of 30 °C *3	(including zero and span shifts)	$\pm (0.075+0.075\times\frac{350}{x})\%$	(For <i>x</i> <350 kPa {3.5 kgf/cm ² })

Model GTX60G (for oxygen/chlorine service)

Material of wetted parts: Diaphragm; 316L SST, Others; 316 SST

Reference accuracy *3 *4		±0.075 %	(For <i>x</i> ≥1750 kPa {17.5 kgf/cm²})
		±0.1 %	(1750 kPa {17.5 kgf/cm²}>x≥140 kPa {1.4 kgf/cm²})
		$\pm (0.025+0.075 \times \frac{140}{x})\%$	(For <i>x</i> <140 kPa {1.4 kgf/cm ² })
Temperature characteristics (Shift from the set range)	Combined shift: (including zero and span	±0.44 %	(For <i>x</i> ≥350 kPa {3.5 kgf/cm²})
Change of $30 \degree C^{*3}$ shifts) (Range from -5 to $+55 \degree C$)		$\pm (0.19+0.25 \times \frac{350}{x})\%$	(For <i>x</i> <350 kPa {3.5 kgf/cm ² })

Model GTX60G (for regular type/oxygen/chlorine service)

Material of wetted parts: Diaphragm; ASTM B575 (Equivalent to Hastelloy C-276), Tantalum, 316L SST Others; ASTM B575 (Equivalent to Hastelloy C-276), Tantalum, 316L SST

Reference accuracy *3 *4		±0.2 %	(For <i>x</i> ≥350 kPa {3.5 kgf/cm²})
		$\pm (0.05+0.15 \times \frac{350}{x})\%$	(For <i>x</i> <350 kPa {3.5 kgf/cm ² })
Ambient Temperature effect (Shift from the set range)	Combined shift: (including zero and span shifts)	±0.85 %	(For <i>x</i> ≥350 kPa {3.5 kgf/cm ² })
Change of 30 °C * ³ (Range from -5 to $+55$ °C)		$\pm (0.35+0.5\times\frac{350}{x})\%$	(For <i>x</i> <350 kPa {3.5 kgf/cm ² })

*1. URV denotes the process value for 100 % (20 mA DC) output.

*2. LRV denotes the process value for 0 % (4 mA DC) output.

*3. Within a range of $URV \ge 0$ and $LRV \ge 0$.

**4. Reference accuracy at calibrated condition.*

*5. In case code D "Digital output (DE communication)" is selected, reference accuracy becomes the same as one of "for oxygen/chlorine service".

*6. In case code "YB" or "YD" of Option selected, Linear output is $\pm 0.05\%$ (For $x \ge 10.0$ kPa {1000 mmH2O}).

Model GTX71G (for regular type/oxygen/chlorine service)

Material of wetted parts: Diaphragm; 316L SST, Others; 316 SST

Reference accuracy *3 *	4	±0.15 %	(For <i>x</i> ≥2.1 MPa {21 kgf/cm²})
		$\pm (0.05+0.1 \times \frac{2.1}{x})\%$	(For <i>x</i> <2.1 MPa {21 kgf/cm ² })
Ambient Temperature		±0.41 %	(For <i>x</i> ≥3.5 MPa {35 kgf/cm²})
(Shift from the set range) Change of 30 °C *3	e) (including zero and span shifts)	$\pm (0.18+0.23 \times \frac{3.5}{x})\%$	(For <i>x</i> <3.5 MPa {35 kgf/cm ² })

Model GTX71G (for regular type/oxygen/chlorine service)

Material of wetted parts: Diaphragm; ASTM B575 (Equivalent to Hastelloy C-276), Tantalum, 316L SST Others; ASTM B575 (Equivalent to Hastelloy C-276), Tantalum, 316L SST

Reference accuracy *3 *4		±0.2 %	(For <i>x</i> ≥2.1 MPa {21 kgf/cm²})
		$\pm (0.05+0.15 \times \frac{2.1}{x})\%$	(For <i>x</i> <2.1 MPa {21 kgf/cm ² })
Ambient Temperature effect (Shift from the set range)	Combined shift: (including zero and span shifts)	±0.85 %	(For <i>x</i> ≥3.5 MPa {35 kgf/cm ² })
Change of 30 °C *3 (Range from -5 to +55 °C)		$\pm (0.35+0.5\times\frac{3.5}{x})\%$	(For <i>x</i> <3.5 MPa {35 kgf/cm ² })

Model GTX82G (for regular type/oxygen/chlorine service)

Material of wetted parts: Diaphragm; 316L SST, Others; 316 SST

Reference accuracy *3 *4		±0.15 %	(For $x \ge 7$ MPa {70 kgf/cm ² })
		$\pm (0.05+0.1 \times \frac{7}{x})\%$	(For <i>x</i> <7 MPa {70 kgf/cm ² })
Ambient Temperature effect	Combined shift:	±0.41 %	(For <i>x</i> ≥7 MPa {70 kgf/cm²})
(Shift from the set range) Change of 30 °C * ³	(including zero and span shifts)	$\pm (0.18+0.23 \times \frac{7}{x})\%$	(For <i>x</i> <7 MPa {70 kgf/cm ² })

Model GTX82G (for regular type/oxygen/chlorine service)

Material of wetted parts: Diaphragm; ASTM B575 (Equivalent to Hastelloy C-276)

Reference accuracy *3 *4		±0.15 %	(For <i>x</i> ≥7 MPa {70 kgf/cm²})
		$\pm (0.05+0.1\times\frac{7}{x})\%$	(For <i>x</i> <7 MPa {70 kgf/cm ² })
Ambient Temperature effect (Shift from the set range)	Combined shift: (including zero and span shifts)	±0.85 %	(For <i>x</i> ≥7 MPa {70 kgf/cm²})
Change of 30 °C * ³ (Range from –5 to +55 °C)		$\pm (0.35+0.5\times\frac{7}{x})\%$	(For <i>x</i> <7 MPa {70 kgf/cm ² })

*3. Within a range of URV \geq 0 and LRV \geq 0.

*4. Reference accuracy at calibrated condition.

MODEL SELECTION

Model GTX60G (Standard gauge pressure)

Model No.: GTX__G - Selection I (I II III IV V VI VII) - Selection II (I II III IV V VI) - Option

Basic Model No.

Measuring span 17.5 to 3500 kPa (0.175 to 35 kgf/cm²) GTX60G

Selection I

r									
Output	4 to 20 mA (SFN Com	nunication)	Α						
4 to 20 mA (HART		ommunication)	В						
	FOUNDATION Fieldbus	communication *1 *2 *12	С						
	Digital output (DE com	nmunication) *9	D						
	4 to 20 mA (HART7 Ce	ommunication)	F						
Fill fluid	Regular type (Silicone	oil)		А					
	For oxygen service (Flu	orine oil)		Н					
	For chlorine service (F	luorine oil) *5		J					
Material (Meterbody	Meterbody cover	Vent/Drain plugs							
cover, Vent/Drain plugs)	SCS14A	316 SST			Α				
	PVC *3 *6 *7 *8	PVC *3 *6 *7 *8			С				
Material (center body)	316 SST (Diaphragm: 316L SST) A]		
	ASTM B575 (Equivalent to Hastelloy C-276)					В	1		
	Tantalum *4 *10	• · · · · ·				С	1		
	316L SST *4 *10					D	1		
Process connections	Rc 1/2, with adapter fla	inge					Α]	
	Rc 1/4, with adapter fla	inge					В	1	
	· · · ·						С	1	
							D	1	
	1/4 NPT internal threa	d, with adapter flange					Е	1	
	1/4 NPT internal threa	d, without adapter flange					F	1	
Process installation	Vertical piping, top cor	inection						Α	
								В	
	Horizontal piping, from	t connection						С	
Bolt/nut	304 SST								В
									<u> </u>
-	Fill fluid Material (Meterbody cover, Vent/Drain plugs) Material (center body) Process connections Process installation	4 to 20 mA (HART5 C. FOUNDATION Fieldbus Digital output (DE com 4 to 20 mA (HART7 C. Fill fluid Regular type (Silicone of For oxygen service (Flu For chlorine service (Flu For chlorine service (Flu Material (Meterbody cover, Vent/Drain plugs) SCS14A PVC *3 *6 *7 *8 Material (center body) 316 SST (Diaphragm: 3 ASTM B575 (Equivaler Tantalum *4 *10 316L SST *4 *10 Process connections Rc 1/2, with adapter fla Rc 1/4, without adapter 1/2 NPT internal thread 1/4 NPT internal thread 1/4 NPT internal thread 1/4 NPT internal thread 1/4 NPT internal thread Netrical piping, bottom Horizontal piping, for	4 to 20 mA (HART5 Communication) FOUNDATION Fieldbus communication *1*2*12 Digital output (DE communication) *9 4 to 20 mA (HART7 Communication) *9 4 to 20 mA (HART7 Communication) Fill fluid Regular type (Silicone oil) For oxygen service (Fluorine oil) For chlorine service (Fluorine oil) *5 Material (Meterbody Meterbody cover vent/Drain plugs) SCS14A SCS14A 316 SST PVC *3*6*7*8 PVC *3*6*7*8 Material (center body) 316 SST (Diaphragm: 316L SST) ASTM B575 (Equivalent to Hastelloy C-276) Tantalum *4 *10 316L SST *4*10 Sec 1/2, with adapter flange Process connections Rc 1/2, with adapter flange Rc 1/4, without adapter flange 1/2 NPT internal thread, with adapter flange 1/4 NPT internal thread, with adapter flange 1/4 NPT internal thread, without adapter flange Process installation Vertical piping, top connection Vertical piping, bottom connection	A to 20 mA (HART5 Communication) B FOUNDATION Fieldbus communication *1*2*12 C Digital output (DE communication) *9 D 4 to 20 mA (HART7 Communication) *9 D Fill fluid Regular type (Silicone oil) For oxygen service (Fluorine oil) *5 For oxygen service (Fluorine oil) *5 Material (Meterbody Meterbody cover Vent/Drain plugs SCS14A 316 SST PVC *3 *6 *7 *8 PVC *3 *6 *7 *8 Material (center body) 316 SST (Diaphragm: 316L SST) ASTM B575 (Equivalent to Hastelloy C-276) Tantalum *4 *10 316L SST *4 *10 Scs (A, with adapter flange Process connections Rc 1/2, with adapter flange Rc 1/4, without adapter flange 1/2 NPT internal thread, with adapter flange 1/4 NPT internal thread, with adapter flange 1/4 NPT internal thread, without adapter flange Process installation Vertical piping, top connection Vertical piping, bottom connection	4 to 20 mA (HART5 Communication) B FOUNDATION Fieldbus communication *1*2*12 C Digital output (DE communication) *9 D 4 to 20 mA (HART7 Communication) *9 D 4 to 20 mA (HART7 Communication) *9 D Fill fluid Regular type (Silicone oil) A For oxygen service (Fluorine oil) *5 J Material (Meterbody Meterbody cover Vent/Drain plugs SCS14A 316 SST PVC *3 *6 *7 *8 PVC *3 *6 *7 *8 Material (center body) 316 SST (Diaphragm: 316L SST) ASTM B575 (Equivalent to Hastelloy C-276) Tantalum *4 *10 316L SST *4 *10 SST *4 *10 Process connections Rc 1/2, with adapter flange Rc 1/4, without adapter flange I/2 NPT internal thread, with adapter flange 1/4 NPT internal thread, with adapter flange I/4 NPT internal thread, without adapter flange Process installation Vertical piping, top connection Vertical piping, bottom connection	A to 20 mA (HART5 Communication) B FOUNDATION Fieldbus communication *1*2*12 C Digital output (DE communication) *9 D 4 to 20 mA (HART7 Communication) *9 D Fill fluid Regular type (Silicone oil) A For oxygen service (Fluorine oil) *5 J Material (Meterbody Meterbody cover Vent/Drain plugs SCS14A 316 SST A PVC *3 *6 *7 *8 PVC *3 *6 *7 *8 C Material (center body) 316 SST (Diaphragm: 316L SST) A ASTM B575 (Equivalent to Hastelloy C-276) Tantalum *4 *10 316L SST *4 *10 Internal thread, with adapter flange Rc 1/2, with adapter flange Rc 1/4, without adapter flange I/2 NPT internal thread, with adapter flange I/2 NPT internal thread, with adapter flange I/4 NPT internal thread, without adapter flange I/4 NPT internal thread, without adapter flange Process installation Vertical piping, top connection Vertical piping, bottom connection	Image: constraint of the second state of the seco	Image: A to 20 mA (HART5 Communication)B FOUNDATION Fieldbus communication *1*2*12C C Digital output (DE communication) *9D A to 20 mA (HART7 Communication) *9D A to 20 mA (HART7 Communication) *9D A For oxygen service (Fluorine oil)A FFill fluidRegular type (Silicone oil)A For oxygen service (Fluorine oil) *5JMaterial (Meterbody cover, Vent/Drain plugsSCS14A316 SSTA PVC *3*6*7*8Material (center body)SCS (Diaphragm: 316L SST)A ASTM B575 (Equivalent to Hastelloy C-276)B Tantalum *4*10C 	Image: constrain of the second sec

*1. Not applicable for the combination with code Q1 "Safety Transmitter" and Q2 "NAMUR NE43 Compliant Output signal limits" of Option.

*2. In case code A of indicator is selected, code A2 of Option code should be selected.

*3. 304 SST bolts and nuts material (-B) must be selected when PVC meterbody cover is selected. The max. working pressure is 1.5 MPa.

*4. In case code C, or D is selected, code A, or B of Process installation should be selected.

- *5. In case code J is selected, code C "Tantalum" of Material (meterbody) should be selected.
- *6. In case PVC is selected, code A, or D of Process connections should be selected.
- *7. In case PVC is selected, code A, or B of Process installation should be selected.

*8. In case PVC is selected, Not applicable for the combination with code T2 "Mill certificate" of Option code.

*9. Not applicable for the combination with code A2 "With external Zero/Span adjustment", Q1 "Safety Transmitter" and Q2 "NAMUR NE43 Compliant Output Signal Limits" of Option.

*10. Not applicable for the combination with code D of Bolt/nut.

*11. In case this code is selected, code P8 of Option code should be selected.

*12. Not applicable for the combination with code YB "Manufactured by ACNP (for use in China)" and YD "Manufactured by ACNP(for use outside of China)" of Option.

Model GTX71G (High gauge pressure)

Model No.: GTX__G - Selection I (I II III IV V VI VII) - Selection II (I II III IV V VI) - Option

GTX71G

Basic Model No.

Measuring span 0.7 to 14 MPa (7 to 140 kgf/cm²)

Selection I

Ι	Output	4 to 20 mA (SFN Comm	unication)	А						
		4 to 20 mA (HART5 Cor	mmunication)	В						
		FOUNDATION Fieldbus co	ommunication *1*2*10	С						
		Digital output (DE com	nunication) *7	D						
		4 to 20 mA (HART7 Cor	mmunication)	F						
II	Fill fluid	Regular type (Silicone oi	1)		Α					
		For oxygen service (Fluc	orine oil)		Н					
		For chlorine service (Flu	orine oil) *5		J					
III	Material (Meterbody	Meterbody cover	Vent/Drain plugs							
	cover, Vent/Drain plugs)	SCS14A	316 SST			Α		-		
IV	Material (center body)	316 SST (Diaphragm: 31	6L SST)				А			
		ASTM B575 (Equivalent	to Hastelloy C-276)				В			
		Tantalum *4 *8					С			
		316L SST *4 *8					D			
V	Process connections	Rc 1/2, with adapter flan	ge					Α		
		Rc 1/4, with adapter flan	ge					В		
		Rc 1/4, without adapter	flange					С		
		1/2 NPT internal thread	, with adapter flange					D		
		1/4 NPT internal thread	, with adapter flange					Е		
L		1/4 NPT internal thread	, without adapter flang	e				F		
VI	Process installation	Vertical piping, top conr	nection *4						А	
		Vertical piping, bottom of	connection *4						В	
		Horizontal piping, front	connection						С	
VII	Bolt/nut	Carbon steel								Α
		304 SST *3						В		
		630 SST	630 SST							С
		316 SST *3 *9								D

*1. Not applicable for the combination with code Q1 "Safety Transmitter" and Q2 "NAMUR NE43 Compliant Output signal limits" of Option.

*2. In case code A of indicator is selected, code A2 of Option code should be selected..

- *3. When 304/316 SST bolt/nut is selected, max working pressure rating is 10 MPa (100 kgf/cm²).
- *4. In case code C, or D is selected, code A, or B of Process installation should be selected.
- *5. In case code J is selected, code C "Tantalum" of Material (centerbody) should be selected.
- *7. Not applicable for the combination with code A2 "With external Zero/Span adjustment", Q1 "Safety Transmitter" and Q2 "NAMUR NE43 Compliant Output Signal Limits" of Option.
- *8. Not applicable for the combination with code D of Bolt/nut.
- *9. In case this code is selected, code P8 of Option code should be selected.
- *10. Not applicable for the combination with code YB "Manufactured by ACNP (for use in China)" and YD "Manufactured by ACNP(for use outside of China)" of Option.

Model GTX82G (High gauge pressure)

Model No.: GTX__G - Selection I (I II III IV V VI VII) - Selection II (I II III IV V VI) - Option

GTX82G

Basic Model No.

Measuring span 0.7 to 42 MPa (7 to 420 kgf/cm²)

Selection I

our										
Ι	Output	4 to 20mA (SFN Communicati	on)	А						
		4 to 20mA (HART5 Communi	cation)	В						
		FOUNDATION Fieldbus commu	nication *2 *5 *6	С						
		Digital output (DE communica	tion) *3	D						
		4 to 20mA (HART7 Communi	cation)	F		_				
II	Fill fluid	Regular type (Silicone oil)			Α]				
		For oxygen service (Fluorine o	il)		Н					
III	Material (Meterbody	Meterbody cover	Vent/Drain plugs							
	cover, Vent/Drain plugs)	316 SST	316 SST			Α				
IV	Material (center body)	316 SST (Diaphragm: 316L SST	[)				Α			
		ASTM B575 (Equivalent to Ha	stelloy C-276)				В			
V	Process connections	Rc 1/2, with adapter flange, for	high pressure model					Р		
		Rc 1/4, with adapter flange, for	high pressure model	1				R		
		Rc 1/4, without adapter flange,	for high pressure mod	del				S		
		l/2 NPT internal thread, with a	dapter flange, for high	n pres	sure	mode	1	Т		
		l/4 NPT internal thread, with a	dapter flange, for high	n pres	sure	mode	1	W		
		l/4 NPT internal thread, without	ut adapter flange, for h	nigh p	oressu	ire mo	odel	Y		
\mathbf{VI}	Process installation	Vertical piping, top connection	L						Α	
		Vertical piping, bottom connect	tion						В	
		Horizontal piping, front conne	Horizontal piping, front connection					С		
VII	Bolt/nut	Carbon steel	urbon steel						Α	
		304 SST *1								В
		630 SST								С
		316 SST *1 *4								D

*1. When 304/316 SST bolt/nut is selected, max working pressure rating is 20MPa{200kgf/cm²} for Process connection code P,R,T and W. For Process connection code S and Y, the maximum working pressure rating is 23MPa{230kgf/cm²}

*2. Not applicable for the combination with code Q1 "Safety Transmitter" and Q2 "NAMUR NE43 Compliant Output signal limits" of Option.

*3. Not applicable for the combination with code A2 "With external Zero/Span adjustment", Q1 "Safety Transmitter" and Q2 "NAMUR NE43 Compliant Output Signal Limits" of Option.

*4. In case this code is selected, code P8 of Option code should be selected.

*5. In case code A of indicator is selected, code A2 of Option code should be selected.

*6. Not applicable for the combination with code YB "Manufactured by ACNP (for use in China)" and YD "Manufactured by ACNP(for use outside of China)" of Option.

Model No.: GTX__G - Selection I (I II III IV V VI VII) - Selection II (I II III IV V VI) - Option

Selection II

ele	ection II						
Ι	Electrical connection	G1/2 *2 *13	 1				
		G1/2 TIIS explosion proof with 1 cable gland attached *3 *13	 3				
		G1/2 TIIS explosion proof with 2 cable gland attached *3*13	4				
		1/2 NPT, Watertight	Α				
		M20, Watertight *1	В				
Π	Explosion proof [★] *14 *15	None		XX			
		FM Explosionproof for Division system/Flameproof for Zone system		F1			
		FM Intrinsic safety		F2			
		FM Intrinsic safety ia/ic FISCO and Fieldbus *8		F4			
		FM Nonincendive		F5			
		Combination of code F1, F2, and F5		F6			
		FM Fieldbus Nonincendive *8		F7			
		ATEX Flameproof		A1			
		ATEX Intrinsic safety		A2			
		ATEX Intrinsic safety ia FISCO and Fieldbus *8		A4			
		ATEX Intrinsic safety ic FISCO and Fieldbus *8		A7			
		IECEx Flameproof		E1			
		IECEx Intrinsic safety		E2			
		IECEx Intrinsic safety ia FISCO and Fieldbus *8		E4			
		IECEx Intrinsic safety ic FISCO and Fieldbus *8		E7			
		NEPSI Flameproof		N1			
		NEPSI Intrinsic safety		N2			
		TIIS Flameproof *5 *6		J1			
		KCs Flameproof *6		K1			
		TAIWAN Flameproof		T1			
III	Indicator	None	 	X			
		With indicator *7	 	A			
IV	Paint *12	Standard	 		X]	
		None (316 stainless steel housing) *4			E	1	
		Corrosion-proof (Urethane)	 		H		
V	Failure alarm	Upper limit of output at abnormal condition	 			A	٦
•		Lower limit of output at abnormal condition	 			B	1
		None (for FOUNDATION Fieldbus) *8	 			X	1
VI	Mounting bracket	None	 			11	╈
• •		CF8 (L form) *9					+
		CF8M (L form) *9 *11	 				+
		304 SST (Flat form) *10	 				+

*1. Not applicable for the combination with code F1, F6 of Explosion proof.

- *2. Code XX of Explosion proof should be selected.
- *3. Code J1 of Explosion proof should be selected.
- *4. Not applicable for combination with code 1,3,4 of Electrical connection.
- *5. 3 or 4 of Electrical connection should be selected.
- *6. Not applicable for the combination with code E of Paint.
- *7. In case the code C "FOUNDATION Fieldbus communication" of output is selected, code A2 of Option code should be selected.
- *8. In case this code is selected, code C of Output should be selected.
- *9. Applicable for wetted parts of material (center body) ;316 SST and ASTM B575.
- *10. Applicable for wetted parts of material (center body) ;Tantalum and 316L SST.
- *11. In case this code is selected, code P8 of Option code should be selected.
- *12. In case code X or H is selected, the material of transmitter case is aluminum alloy.
- *13. Not applicable for the combination with code YB "Manufactured by ACNP (for use in China)" and YD "Manufactured by ACNP(for use outside of China)" of Option.
- *14. For FOUNDATION Fieldbus type. Refer to SS2-GTX00Z-0100.
- *15. For option code YB "Manufactured by ACNP (for use in China)" and YD "Manufactured by ACNP(for use outside of China)" selected, only the following codes can be selected. YB: XX, N1, N2
 - YD: XX, F1, F2, F5, F6, A1, A2, E1, E2, T1

Model No.: GTX__G - Selection I (I II III IV V VI VII) - Selection II (I II III IV V VI) - Option

Option		_	
	No options	1	XX
	With external Zero/Span adjustment (With external ZERO adjustment only for FOUNDATION Fieldbus)*8	*9	A2
	One elbow (left) *3 *4 *7	(G1
	One elbow (right) *3 *4 *7	(G2
	2 elbows *3 *5 *7		G3
	Long vent/drain plugs		G4
	Side vent/drain top *3 *16	(G6
	Side vent/drain bottom *3 *16		G7
	Oil and water free finish	1	K1
	Oil free finish *1	1	K3
	Au Plating Diaphragm		L1
	316 SST (Parts in contact with atmosphere) *11 *12 *13		P8
	Safety Transmitter *2 *9 *14 *17	(Q1
	NAMUR NE43 Compliant Output Signal Limits: 3.8 to 20.5 mA (Output 21.6 mA/selected upper limit,	(Q2
	3.6 mA/selected lower limit) *9 *14		
	Alarm Output (contact output) *10 *14	(Q7
	Advanced diagnostics *15	(Q8
	Custom calibration		R1
	Test report		T1
	Mill certificate		T2
	Traceability certificate *18		T4
	NACE certificate *6		T5
	Non SI Unit	1	W1
	Safety label for Taiwan		Y2
	Manufactured by ACNP (for use in China)		YB
	Manufactured by ACNP(for use outside of China)	1	YD

*1. No need to select when Fill Fluid code H, or J is selected.

*2. Not applicable for the combination with code A2, or Q7 of Option.

*3. Not applicable for the combination with code A, or B of Process installation.

- *4. Not applicable for the combination with code F1, F6 of Explosion proof.
- *5. Not applicable for any Explosion proof. Please select code XX "None" of Explosion proof.

*6. Applicable for "ASTM B575", code B of Material (center body).

*7. Not applicable for the combination with code B "M20, Watertight" electrical connection.

- *8. Not applicable for the combination with code X "None" of Indicator. Please select "With indicator".
- *9. Not applicable for the combination with code D "Digital output (DE communication)" of output.
- *10. Not applicable for the combination with code F2, F5, F6, N2, C2, E2, and A2 of Explosion proof.

*11. In case code P8 is selected, code D of Bolt/nut should be selected.

- *12. In case code P8 is selected, code E of Paint should be selected.
- *13. In case code P8 is selected, code X or 2 of Mounting bracket should be selected.

*14. Not applicable for the combination with code C "Digital output (FOUNDATION Fieldbus communication)" of output.

- *15. Not applicable for the combination with code A "4 to 20 mA (SFN Communication)", B "4 to 20 mA (HART5 Communication)", and D "Digital output (DE communication)" of output.
- *16. Not applicable for the combination with model GTX82G.

*17. Not applicable for the combination with cod F "4 to 20 mA(HART7 Communication)" of output.

*18. Not applicable for the combination with code YB "Manufactured by ACNP (for use in China)" and YD "Manufactured by ACNP(for use outside of China)" of Option.

Unit: mm

DIMENSIONS

Model GTX60G (Material (center body): 316 SST, ASTM B575)

Process connection: Front side



Process Connection: Top or bottom side





Process connection: Front side

Unit: mm



Process connection: Top or bottom side





Model GTX82G

Process connection: Front side

Unit: mm



Process connection: Top and bottom side







Model GTX60G/71G (Material (center body): Tantalum, 316L SST)

Process connection: Top or bottom side

Unit: mm

Azbil Corporation



Model GTX60G (Material (Meter body cover, Vent/Drain plugs): PVC)

Process connection: Top or bottom side



TERMINAL CONNECTION

(Not applicable for Fieldbus. See SS2-GTX00Z-0100 for Fieldbus.)



Table 1: Terminal connection

Symbol	Details	
S+ Power supply and output signal +		
S-	S– Power supply and output signal –/Check meter –	
CHK/AL	Check meter +	
<u> </u>	Ground	

 Table 2: Terminal connection
 (option "Q7": Alarm output)

Symbol	Details
S+	Power supply and output signal +
S-	Power supply and output signal –
CHK/AL	Alarm +
<u> </u>	Ground/Alarm –

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