Specification

Advanced Transmitter Gauge Pressure Transmitters In-line model

Model GTX60G/71G

OVERVIEW

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Advanced Transmitter is a microprocessor-based smart transmitter that features high performance and excellent stability. Capable of measuring gas, liquid and vapor, 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)
- Model GTX71G: 0.7 to 14 MPa (range ability: 200 to 1)

High durability

- Max. range pressure test is cleared more than 100,000 times.
- Anti-vibration specification is up to 3G.



Remote communication

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

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

and G

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

FM Intrinsic Safety (Code F2)

ambient

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)

C E 0344 **(Ex)** 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 tb IIIC T85 °C Db -30 °C \leq Tamb \leq +75 °C Tprocess \leq 85 °C II 2 D Ex tb IIIC T100 °C Db -30 °C \leq Tamb \leq +75 °C Tprocess \leq 100 °C II 2 D Ex tb 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
≤Tamb≤+60 °C T
process=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 T
process= 105 °C IP66/IP67

II 3 G Ex ic IIC T4 Gc -30 °C ≤Tamb≤+60 °C T
process=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≤Tamb≤+75 °C Ex d IIC T5 Gb; Ex tD A21 IP66/IP67 T100 °C Tprocess= 95 °C; -30 °C≤Tamb≤+80 °C Ex d IIC T4 Gb; Ex tD A21 IP66/IP67 T115 °C Tprocess= 110 °C; -30 °C≤Tamb≤+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

Ex db IIC T6 Ga/Gb -30 °C \leq Tamb \leq +75 °C Tprocess \leq 85 °C Ex db IIC T5 Ga/Gb -30 °C \leq Tamb \leq +80 °C Tprocess \leq 100 °C Ex db IIC T4 Ga/Gb -30 °C \leq Tamb \leq +80 °C Tprocess \leq 110 °C Ex tb IIIC T85 °C Db -30 °C \leq Tamb \leq +75 °C Tprocess \leq 85 °C Ex tb IIIC T100 °C Db -30 °C \leq Tamb \leq +75 °C Tprocess \leq 100 °C

Ex tb IIIC T110 °C Db -30 °C≤Tamb≤+75 °C Tprocess≤ 110 °C

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

KCs Flameproof (Code K1) 11-AV4BO-0323

Ex d IIC T6 -30 °C≤Tamb≤+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≤Tamb≤+75 °C -30 °C≤Tprocess≤85 °C

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

Ex tD A21 T110 °C -30 °C≤Tamb≤+75 °C -30 °C≤Tprocess≤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≤ Tamb ≤+80° C Tprocess≤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

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 }	{52.5 kgf/cm ² }
GTX	0.7 to 14 MPa	-0.1 to +14 MPa	21 MPa
71G	{7 to 140 kgf/cm ² }	$\{-1 \text{ to } +140 \text{ kgf/cm}^2\}$	{210 kgf/cm ² }

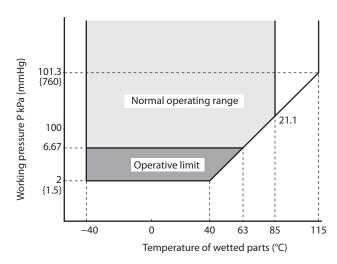


Figure 1. Working pressure and temperature of wetted parts section (GTX60G)

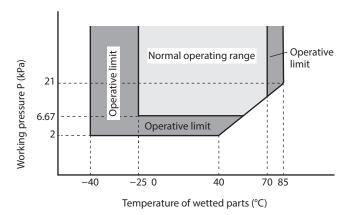


Figure 2. Working pressure and temperature of wetted parts section (GTX71G)

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 [*]

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

3

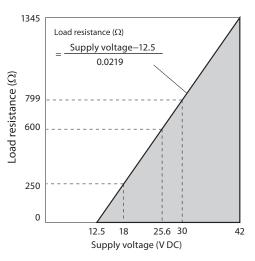


Figure 3. Supply voltage vs. load resistance characteristics

Note) For communication with a communicator, a load resistance of 250Ω 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

	Ambient	Temperature	Transportation					
	temperature	ranges of	and storage					
Unit: ℃	limit	wetted parts	conditions					
	(Operative	(Operative						
	limits)	limits)						
GTX60G								
for general	-40 to +85	-40 to +85	-40 to +85					
purpose model								
GTX71G								
for general	-25 to +70	-25 to +70	-40 to +85					
purpose model	(-40 to +85)	(-40 to +85)						
With digital indicators								
Within the range	e that satisfies b	ooth the follow	ing range and					
the temperature	range of each r	nodel number.						
	-25 to +80		-25 to +80					
	(-30 to +85)							
For explosion-proof type	2							
Refer to the page	e on Products a	pprovals.						
10			10 11					

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

Zero Stability

±0.1 % of URL per 10 year (GTX60G) ±0.2 % of URL per 10 year (GTX71G)

Lightning protection [*]

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

Vibration effect

<u>Paint code X, H</u> Less than ± 0.1 % of URL, field or pipeline with high vibration level (10–60 Hz, 0–0.21 mm peak displacement/ 60–2000 Hz, 3 g)

Paint code E

Less than ± 0.1 % of URL, field with general application or pipeline with low vibration level (10–60 Hz, 0–0.15 mm peak displacement/60–500 Hz, 2 g)

Shock characteristics:

Acceleration 9.8 m/s2 (1G)

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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).

Advanced Transmitter is complied with IEC61508, certified according to Safety Integrity Level 2 (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.

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)

O-ring

NBR

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. 1.3 kg

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INSTALLATION

Electrical connection

G1/2 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

Male: 1/2 NPT, R 1/2, G 1/2, M20×1.5 Female: 1/2 NPT, Rc 1/2

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 })
	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 °C * ³ (Range from −5 to +55 °C)	shifts)	$\pm (0.19+0.25 \times \frac{350}{x})\%$	(For <i>x</i> <350 kPa {3.5 kgf/cm ² })

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 })
	Combined shift:	±0.41 %	(For <i>x</i> ≥3.5 MPa {35 kgf/cm²})
(Shift from the set range) Change of 30 °C *3	(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 })

*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 ≥ 0 and LRV ≥ 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, the reference accuracy is $\pm 0.05\%$ (For $x \ge 10.0 \text{ kPa} \{1000 \text{ mmH2O}\}$).

MODEL SELECTION

Model GTX60G (Standard gauge pressure, In-line model) Model GTX71G (High gauge pressure In-line model)

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.

Massuring on an	17.5 to 3500 kPa (0.175 to 35 kgf/cm ²)	GTX60G
Measuring span	0.7 to 14 MPa (7 to 140 kgf/cm2)	GTX71G

Selection I

our										
Ι	Output	4 to 20 mA (SFN Comm	unication)	Α						
		4 to 20 mA (HART5 Cor	nmunication)	В						
		FOUNDATION Fieldbus co	ommunication *2 *3 *4	С						
		Digital output (DE comr	nunication) *1	D						
		4 to 20 mA (HART7 Cor	nmunication)	F						
II	Fill fluid	Regular type (Silicone oi	1)		А					
III	Material (Meterbody	Meterbody cover	Vent/Drain plugs							
	cover, Vent/Drain plugs)	None (Direct mount)	None (Direct mount)			Х				
IV	Material (center body)	316 SST (Diaphragm: 31	6L SST)				A			
V	Process connections	Rc 1/2 internal thread						1		
		1/2 NPT internal thread						2		
		1/2 NPT external thread						3		
		R 1/2 external thread						4		
		G 1/2 external thread						5		
		M20×1.5 external thread						7		
VI	Process installation	Direct mounting							F	
VII	Bolt/nut	None								X

*1. Not applicable for the combination with code Q1 "Safety Transmitter" of Option.

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

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

*4. 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

Sele	ction 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				
II	Explosion proof [*] *14*15	None	, in the second s		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				Х		
		None (316 stainless steel housing) *4				F		
		Corrosion-proof (Urethane)				H	[
V	Failure alarm	Upper limit of output at abnormal condition					A	1
		Lower limit of output at abnormal condition					B	
		None (for FOUNDATION Fieldbus) *8					X	
VI	Mounting bracket	None						2
	-	CF8 (L form)						

*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.
- *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

No. SS2-GTX00G-0200

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		XX
	With external Zero/Span adjustment *8 *9 *11		A2
	One elbow (left) *2 *4 *7		G1
	One elbow (right) *2 *4 *7		G2
	2 elbows *5 *7		G3
	Oil and water free finish		K1
	Oil free finish *1		K3
	NAMUR NE43 Compliant Output Signal Limits: 3.8 to 20.5 mA (Output 21.6 mA/selected upper limit, 3.6 mA/selected lower limit) *9 *14		Q2
	Alarm Output (contact output) *10 *14		Q7
	Advanced diagnostics *15		Q8
	Custom calibration		R1
	Test report		T1
	Mill certificate		T2
	Traceability certificate *16		T4
	Non SI Unit		W1
	Safety label for Taiwan		Y2
	Manufactured by ACNP (for use in China)		YB
	Manufactured by ACNP(for use outside of China)		YD

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

*2. 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.

*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, N5, E2, C2 and A2 of Explosion proof.

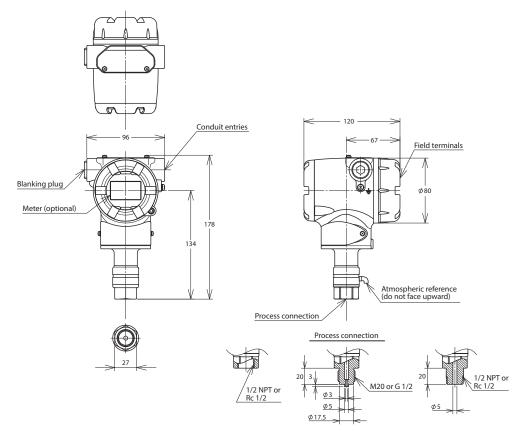
*11. For FOUNDATION Fieldbus model does not have Span adjustment function.

*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 code YB "Manufactured by ACNP (for use in China)" and YD "Manufactured by ACNP(for use outside of China)" of Option.

DIMENSIONS



Unit: mm

TERMINAL CONNECTION

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

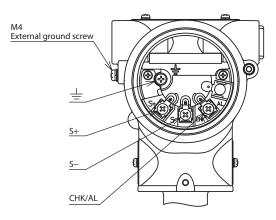


Table 1: Terminal connection

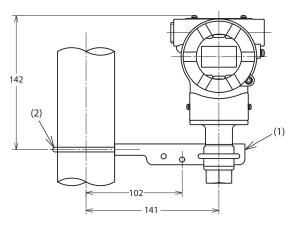
Symbol	Details
S+	Power supply and output signal +
S-	Power supply and output signal –/Check meter –
CHK/AL	Check meter +
<u>+</u>	Ground

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

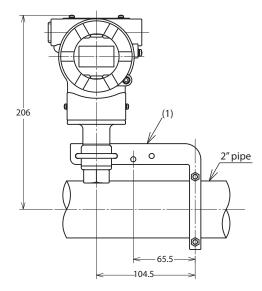
Symbol	Details
S+	Power supply and output signal +
S-	Power supply and output signal –
CHK/AL	Alarm +
<u> </u>	Ground/Alarm –

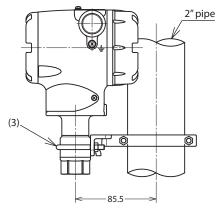
Mounting to vertical 2" pipe

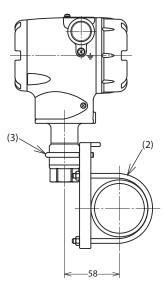
Unit: mm



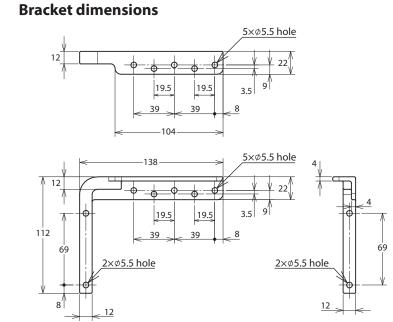
Mounting to horizontal 2" pipe







Mounting to wall



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Note) * *Bolts for wall mounting are not included. (Length will vary according to wall thickness)*

Materials of construction

Key No.	Description	Material	
(1)	Mounting bracket	CF8	
(2)	U bolt/nut	SUS304	
(3)	U bolt/nut	SUS304	

This drawing shows dimensions when optional mounting bracket is used, and shows typical mounting example. Other variations are also possible.

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