

Display Type Pressure Transmitters

■ Features

- HART protocol
- Display rotation in 330 ° range
- Better visibility with supporting backlight function
- Excellent corrosion resistance with stainless steel housing
- High accuracy $\pm 0.2\%$ F.S.
- Self-stable and filter device
- Explosion-proof specification: Ex D IIC T6
- Protection structure: IP67 (IEC standard)



! Please read "Safety Considerations" in the instruction manual before using.



■ Ordering Information

KT-302H **S** — **01** **0** **0** **(-0.1 to 35MPa)**
 ① ② ③ ④ ⑤ ⑥

Item	Description	
①Item	KT-302H	Display Type Pressure Transmitters
②Measurement pressure	S	Gauge pressure, sealed gauge pressure ^{※1}
	A	Absolute pressure
③Rated pressure range		Gauge pressure
	01	0 to 35kPa
	02	0 to 0.1MPa
	03	0 to 0.2MPa
	04	0 to 0.7MPa
	05	0 to 2MPa
	06	0 to 3.5MPa
	07	0 to 7MPa
	08	0 to 21MPa
	09	0 to 35MPa
		Sealed gauge pressure ^{※1}
	14	-0.1 to 0MPa
	15	-0.1 to 0.2MPa
	16	-0.1 to 0.7MPa
	17	-0.1 to 2MPa
	18	-0.1 to 3.5MPa
	Z	Others
④Mounting bracket	0	Without bracket
	1	With bracket
⑤Pressure port	0	G3/8 (PF, standard)
	1	Others
⑥User pressure range ^{※2}		User pressure range

※1: The pressure is sealed gauge pressure. The unit is sealed structure. It is based on atmospheric pressure 101.3kPa (1.013bar).

※2: Write the desired pressure range and it is the default of user pressure range. (select "Z" at ③Rated pressure range)

Specifications

Series	KT-302H
Measured materials	Vapor, liquid, fluid (except corrosive environment of stainless steel 316)
Power supply	9-45VDC---
Display method	PV display part: 7-segment 5-digit, Parameter display part: 16-segment 8-digit, Bar LED: 52
Display range	-9999 to 99999
Output	DC4-20mA (2-wire) Low-limit 3.8mA, high-limit 22.8mA
Accuracy※1	±0.3% of F.S.
Setting method	Setting by front push keys and HART-protocol
Sampling cycle	200ms
Environment	Ambient temperature: -20 to 70 °C, storage: -40 to 85 °C Ambient humidity: 0 to 85%RH, storage: 0 to 85%RH
Material	Body: aluminum (AlDc.8S), cover O-Ring: buna N, diaphragm: stainless steel 316, connections: stainless steel 316
Explosion class※2	Ex d IIC T6
Protection structure	IP67 (IEC standard)
Weight※3	Approx. 1.7kg (approx. 1.4kg)

※1: F.S.: Rated pressure range.

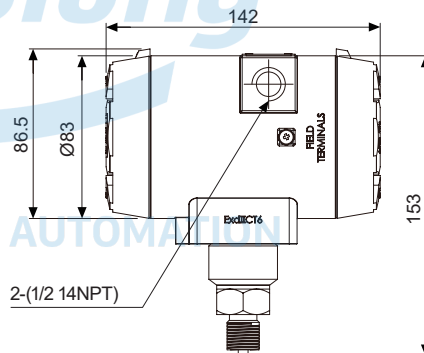
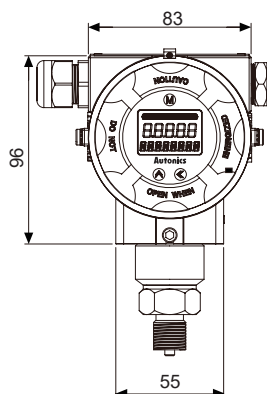
※2: This Explosion class is acquired and managed by Konics Co., Ltd.

※3: The weight includes packaging. The weight in parenthesis is for unit only.

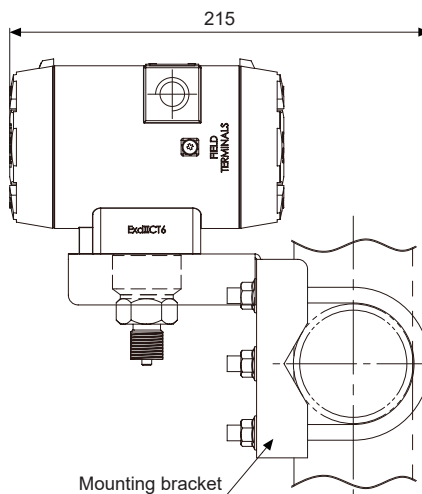
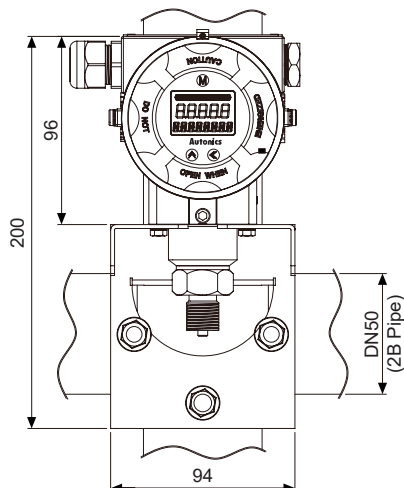
※Environment resistance is rated at no freezing or condensation.

Dimensions

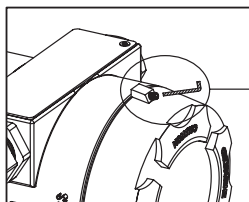
(unit: mm)



• Mounting bracket



■ Opening the Cover



To open the cover, unscrew the M3x6L headless bolt using a 1.5 hexagon wrench and rotate the cover.

■ Parameters

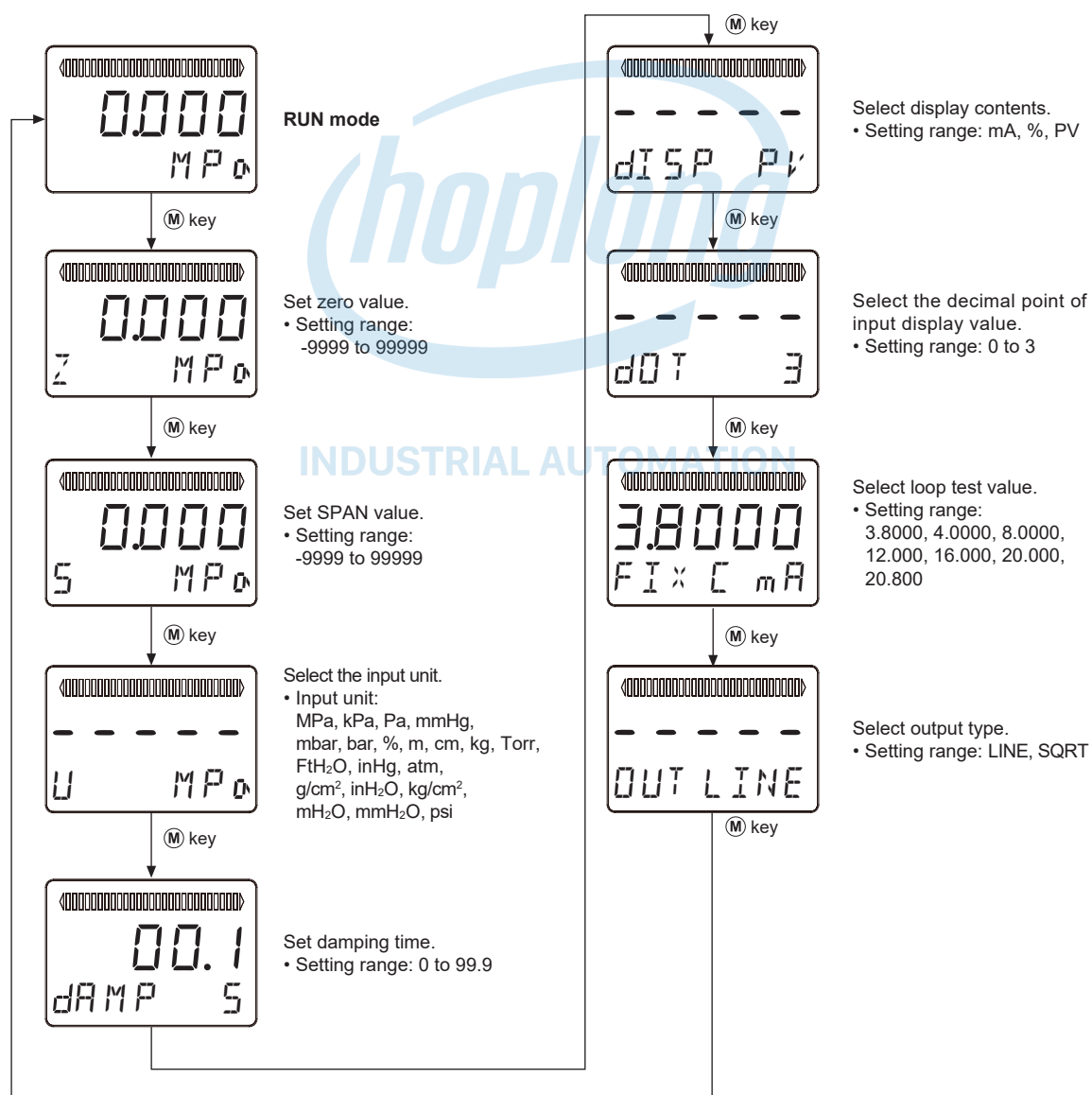
※Do not press the and keys at the same time, or the product is reset and it does not operate.

※: Moves digits / : Changes set value

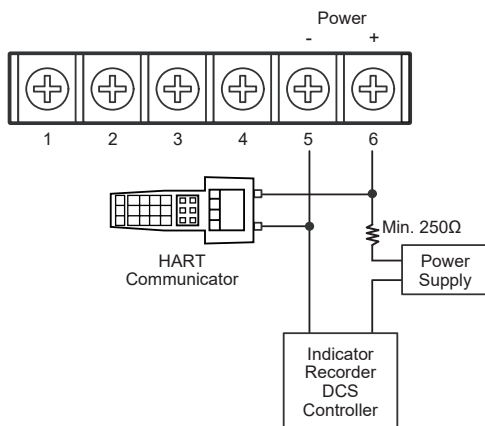
※Press the key after checking/changing the set value and it saves and moves to the next parameter.

※Factory default depends on the pressure range of model.

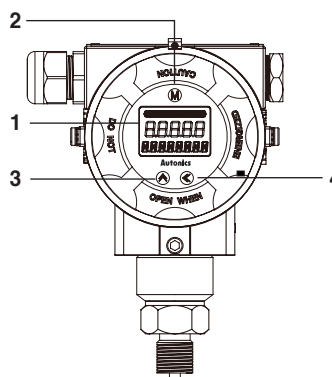
※Below displays for parameters are different by models.



■ Connections



■ Unit Descriptions



1. **Display part** : Displays measured value and unit messages.
2. **M key**: Enters set mode and saves the set values.
3. **A key**: Changes the set values of data.
4. **← key**: Changes the set position of data.

■ Proper Usage

- Follow instructions in 'Cautions during Use'. Otherwise, It may cause unexpected accidents.
- 9-45VDC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.
- The connection of this unit should be separated from the power line and high voltage line in order to prevent inductive noise.
- Do not use this unit near the high frequency instruments
- Switch or circuit breaker for supplying or cutting off the power should be installed nearby users for convenient control.
- Use verified explosion-proof cable gland or sealing fitting.
(explosion proof standard: over Ex d IIC T6, IP rating: over IP67 protection structure).
- Use dedicated external terminal for earth. For connecting earth, use a spring washer and earth cable which is over 4mm².
- This unit may be used in the following environments.
 - ① Indoor / Outdoor (in the environment condition rated in 'Specifications')
 - ② Altitude max. 2,000 m
 - ③ Pollution Degree 2
 - ④ Installation Category II

※ **The explosion-proof unit is certified and the same specifications which is reported to Korea Gas Safety Corporation. (This unit is manufactured following by the announcement 2013-54 of Ministry of Employment and Labor of Korea.)**