

# Autonics Display Pressure Transmitter KT-302H SERIES

## INSTRUCTION MANUAL

Thank you for choosing our Autonics product.  
Please read the following safety considerations before use.

### Safety Considerations

- ※ Please observe all safety considerations for safe and proper product operation to avoid hazards.
- ※ ⚠ symbol represents caution due to special circumstances in which hazards may occur.
- Warning** Failure to follow these instructions may result in serious injury or death.
- Caution** Failure to follow these instructions may result in personal injury or product damage.

### Warning

- Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss.** (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.)  
Failure to follow this instruction may result in personal injury, fire or economic loss.
- Do not use the unit in the place where flammable/explosive/corrosive gas, high humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present.**  
Failure to follow this instruction may result in explosion or fire.
- The explosion-proof standard of this unit is Ex d IIC T6, protection structure of this unit is IP67 and the range of max. surface temperature is below 85°C.**
- Do not disassemble or modify the unit.**  
Failure to follow this instruction may result in fire or electric shock.

### Caution

- Do not apply beyond the rated pressure.**  
Failure to follow this instruction may result in product damage.
- Use the unit within the rated specifications.**  
Failure to follow this instruction may result in fire or product damage.
- Keep metal chip, dust, and wire residue from flowing into the unit.**  
Failure to follow this instruction may result in fire or product damage.
- Check the polarity of the contact before wiring the unit.**  
Failure to follow this instruction may result in product damage by a fire.
- This product is designed to detect the pressure of noncorrosive fluid. Do not use for corrosive fluid.**  
Failure to follow this instruction may result in product damage.
- Use a dry cloth to clean the unit, and do not use water or organic solvent.**  
Failure to follow this instruction may result in fire.

### Ordering Information

KT-302H S - 01 0 0 (-0.1~35MPa)

Item	Description
① Item	KT-302H Pressure Transmitter
② Measurement pressure	S Gauge pressure, sealed gauge pressure*1
	A Absolute pressure
③ Rated 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
④ Mounting bracket	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
	0 Without bracket
⑤ Pressure port	1 With bracket
	0 G3/8 (PF, standard)
⑥ User pressure range*2	1 Others
	0 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 ③ Rated pressure range)

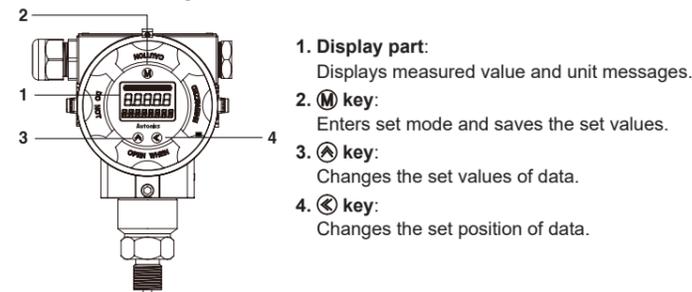
※ The above specifications are subject to change and some models may be discontinued without notice.  
※ Be sure to follow cautions written in the instruction manual and the technical descriptions (catalog, homepage).

### Specifications

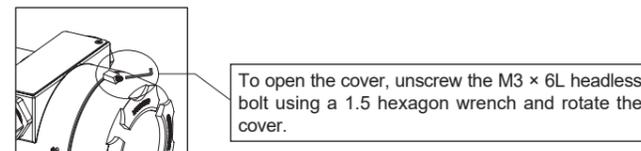
Series	KT-302H	
Measured materials	Vapor, Liquid, Fluid (except corrosive environment of SUS316)	
Power supply	9-45 VDC=	
Display method	PV display part: 7-segment 5-digit, Bar LED: 52 Parameter display part: 16-segment 8-digit	
Display range	-9999 to 99999	
Output	DC4-20 mA (2-wire) Low-limit 3.8 mA, High-limit 22.8 mA	
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, connections: Stainless steel 316	
Explosion class*2	Ex d IIC T6	
Protection structure	IP67 (IEC standard)	
Weight*3	Approx. 1.7 kg (approx. 1.4 kg)	

\*1: F.S.: Rated pressure range.  
\*2: The explosion class specification is acquired and managed by KONICS.  
\*3: The weight includes packaging. The weight in parenthesis is for unit only.  
※ Environment resistance is rated at no freezing or condensation.

### Unit Descriptions



### Opening the Cover



### Parameters

※ Do not press the A and C keys at the same time, or the product is reset and it does not operate.  
※ C: Moves digits / A: Changes set value  
※ Press the M 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.

