

HART Protocol Transmitter



KT-502H Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- HART protocol
- 330° rotatable display for environment conditions
- Increased visibility with backlight function
- Multi-input (order 1 input type among 22 types)
 - RTD 8 types
 - Thermocouple 8 types
 - mV 4 types
 - Resistor 2 types
- Explosion class: Ex d IIC T6
- Protection structure: IP67 (IEC standard)

Ordering Information

This is only for reference, the actual product does not support all combinations. For selecting the specified model, follow the Autonics website.

KT - 502H ① - ②

① Mounting bracket

0: Without bracket
1: With bracket

② Temperature input range

Refer to 'Input Specifications'.

Specifications

Model	KT-502H
Power supply	10.5-45 VDC= (with backlight LCD)
Output	DC 4-20 mA (2-wire)
Input specifications	Refer to 'Input Specifications'
Accuracy	± 0.3%
Display method	PV display part: 7 segment 5 digit (character size: W4×H8 mm), Parameter display part: 14 segment 8 digit (character size: W2.6×H4.8 mm), 52 bar meter
Display range	-19,999 to 99,999
Setting method	HART-protocol (no setting key)
Response time	1 sec
Alarm	≤ 3.8 mA, > 20.5 mA / Sensor break 3.6 mA
Load	≤ (V power supply - 7.5 V) / 0.22 A
Galvanic insulation	2 kVAC~ (Input/Output)
Unit weight (Packaged)	≈ 1.2 kg (≈ 1.4 kg)
Ambient temp.	-20 to 70 °C, Storage: 20 to 80 °C (rated at no freezing or condensation)
Ambient humi.	0 to 85 %RH, Storage: 0 to 85 %RH (rated at no freezing or condensation)
Protection structure	IP67 (IEC standard)
Material	Body: Aluminum (AlDc.8S), Cover O-Ring: Buna N
Explosion class⁰¹⁾	Ex d IIC T6
Approval	CE ENEC MAKATA

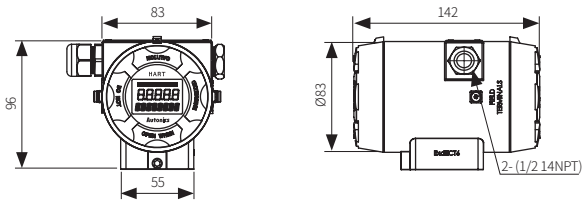
01) The explosion class specification is acquired and managed by KONICS.

Input Specifications

Input type		Input range (°C)	Input range (°F)
Thermocouple	K (NiCr-Ni)	-270 to 1,372	-454 to 2,501.6
	J (Fe-CuNi)	-210 to 1,200	-346 to 2,192
	E (NiCr-CuNi)	-270 to 1,000	-454 to 1,832
	T (Cu-CuNi)	-270 to 400	-454 to 752
	B (PtRh30-PtRh6)	0 to 1,820	32 to 3,308
	R (PtRh13-Pt)	-50 to 1,768	-58 to 3,214.4
	S (PtRh10-Pt)	-50 to 1,768	-58 to 3,214.4
	N (NiCrSi-NiSi)	-270 to 1,300	-454 to 2,372
RTD	Cu50 Ω	-50 to 150	-58 to 302
	Cu100 Ω	-50 to 150	-58 to 302
	DPt100 Ω	-200 to 850	-328 to 1,562
	DPt500 Ω	-200 to 250	-328 to 482
	DPt1000 Ω	-200 to 250	-328 to 482
	Ni100 Ω	-60 to 180	-76 to 356
	Ni500 Ω	-60 to 180	-76 to 356
	Ni1000 Ω	-60 to 150	-76 to 302
Resistance transmitter	Resistance (Ω)	0 to 400 Ω	-
		0 to 2000 Ω	-
Analog	Voltage	-10 - 75 mV	-
		-100 - 100 mV	-
		-100 - 500 mV	-
		-100 - 2,000 mV	-

Dimensions

- Unit: mm, For the detailed drawings, follow the Autonics website.



■ With bracket

