

## **GAS DETECTOR HEAD**

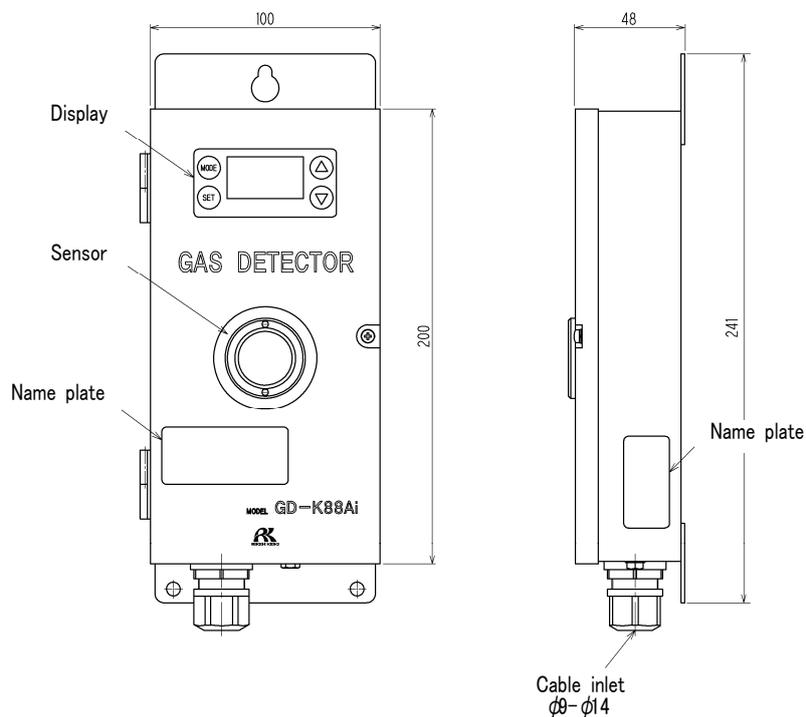
### **GD-K88Ai SPECIFICATION**

Model	GD-K88Ai
Detection principle	Electrochemical type
Gas to be detected	Toxic gases
Concentration display	7-segment LCD (4 digits)
Detection range* <sup>1</sup>	Depends on the gas to be detected
Detection method	Diffusion method
Alarm preset point* <sup>1</sup>	Depend on Detectable gas
Alarm accuracy (under an identical condition)	Within $\pm 30\%$ to the alarm setpoint value
Alarm-delay time (under an identical condition)	60 seconds or less (by providing the gas 1.6 times the alarm setpoint)
Gas alarm type	Two-step alarm(H-HH)
Gas alarm indication	A warning message is indicated(AL1/AL2)
Gas alarm action* <sup>1</sup>	Latching or non latching
Trouble alarm+Self diagnosis	System failure/Sensor failure
Trouble alarm indication	content display
Trouble alarm action	Non latching
Transmission method	2-wire analog transmission + digital transmission (HART Communication)
Transmission specifications	4-20mADC (load resistance: 300 $\Omega$ or less)
Communication scheme	HART 7
Power supply	24VDC $\pm 10\%$
Power consumption	Approx. 0.6W
Transmission cable	Shielded cable of CVVS, etc. (1.25 mm <sup>2</sup> ) - 2-core
Transmission distance	Up to 1km with CVVS 1.25 mm <sup>2</sup> (up to 600m between the detector head and Zener Barrier)
Safety maintaining device* <sup>2</sup>	Zener Barrier (MTL7728ac/MTL7728+/MTL7728-) or insulating barrier (MTL5541/RN221N-J1/KFD2-STC4-Ex1)
Operating temperature	0°C to +40°C (non-rapidly-vary)
Operating humidity	30 to 70%RH (non-condensing)
Structure	Wall mounted type
Explosion-proof structure	Intrinsically safe explosion-proof structure, with safety maintaining device (barrier) used
Explosion-proof class	Ex ia IIC T4 Ga
External dimensions	Approx. 100(W)x241(H)x48(D)mm (projection portions excluded)
Weight	Approx. 1.0kg
Material* <sup>1</sup>	SECC or SUS304
Paint	Bake-coated with melamine
Outer color	Munsell 2.5Y9/2

\*1 Please specify your request when ordering.

\*2 Recommended item

**Outline Drawings**



**Terminal Drawings**

