GAS DETECTOR HEAD GD-F88Ai (Oxygen Deficiency Alarm) SPECIFICATION

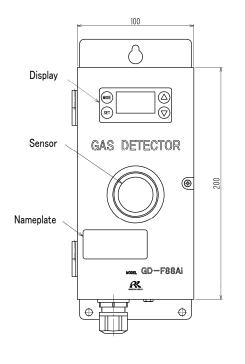
Model	GD-F88Ai
Detection principle	Galvanic cell method
Gas to be detected	02
Concentration display	7-segment LCD (4 digits)
Detection range	0~25vo1%
Detection method	Diffusion type
Alarm preset point*1	18vol%(1st <l>) [Standard]</l>
	18vol%(2nd <ll>) [Standard]</ll>
Indicate accuracy*2	Within ±0.7vol%
(under an identical condition)	
Response time*2	Within 30sec(T90)
(under an identical condition)	
Accuracy of Alarm setpoint*2	Difference between Alarm setpoint and indicated value of warning alarm
	are zero.
Alarm-delay time*2	By anoxia alarm(Alarm setpoint value:18vol%), Within 5sec(when
(under an identical condition)	introducing 10∼11vol% gas)
Gas alarm type	Two-step alarm (L-LL)
Gas alarm indication	Alarm message(AL1/AL2)
Gas alarm action*1	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: 300Ω or less)
Communication scheme	HART 7
Power supply	24VDC±10%
Power consumption	Approx. 0.6W
Transmission cable	Shielded cable of CVVS, etc. (1.25mm²) - 2-core
Transmission distance	Up to 1km with CVVS 1.25 mm ² (up to 600m between the detector head and
	Zener Barrier)
Safety maintaining device*3	Zener Barrier (MTL7728ac/MTL7728+/MTL7728-) or
	insulating barrier (MTL5541/RN221N-J1/KFD2-STC4-Ex1)
Operating temperature	-10°C to +40°C (non-rapidly-vary)
Operating humidity	Less than 95%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 II C T4 Ga
External dimensions	Approx. 100 (W) x241 (H) x48 (D) mm (projection portions excluded)
Weight	Approx. 1.0kg
Material*1	SECC or SUS304
Paint	Bake-coated with melamine
Outer color	Munsell 2.5Y9/2
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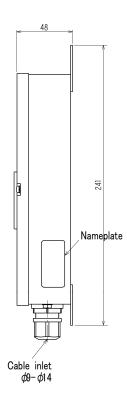
^{*1} Please specify your request when ordering.

^{*2} In conformity to JIS T8201 2010(Oxygen deficiency indicator).

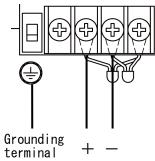
^{*3} Recommended item

Outline Drawings





Terminal Drawings



Power supply and Output signal 4-20mA with HART

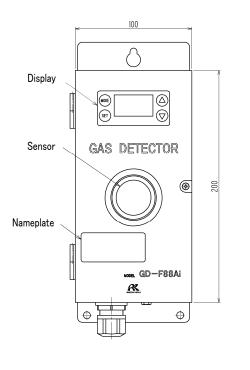
GAS DETECTOR HEAD GD-F88Ai (Gas monitoring) SPECIFICATION

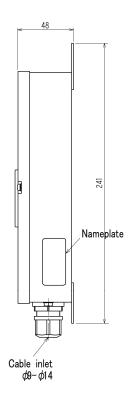
Model	GD-F88Ai
Detection principle	Galvanic cell method
Gas to be detected	02
Concentration display	7-segment LCD (4 digits)
Detection range	0~5vol%/0~10vol%/0~25vol%
Detection method	Diffusion type
Alarm preset point*1	Depend on measuring range
Indicate accuracy	Within ±0.7vol%(below 25vol% range)
(under an identical condition)	
Response time	Within 30sec(T90)
(under an identical condition)	70.100
Gas alarm type*1	Two-step alarm (H-HH, L-H, and L-LL)
Gas alarm indication	Alarm message (AL1/AL2)
Gas alarm action*1	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: 300Ω or less)
Communication scheme	HART 7
Power supply	24VDC±10%
Power consumption	Approx. 0.6W
Transmission cable	Shielded cable of CVVS, etc. (1.25mm²) - 2-core
Transmission distance	Up to 1km with CVVS 1.25 mm ² (up to 600m between the detector head and
	Zener Barrier)
Safety maintaining device*2	Zener Barrier (MTL7728ac/MTL7728+/MTL7728-) or
	insulating barrier (MTL5541/RN221N-J1/KFD2-STC4-Ex1)
Operating temperature	-10°C to +40°C (non-rapidly-vary)
Operating humidity	Less than 95%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*1	SECC or SUS304
Paint	Bake-coated with melamine
Outer color	Munsell 2.5Y9/2
4 DI 16	

^{*1} Please specify your request when ordering.

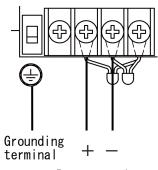
^{*2} Recommended item

Outline Drawings





Terminal Drawings



Power supply and Output signal 4-20mA with HART