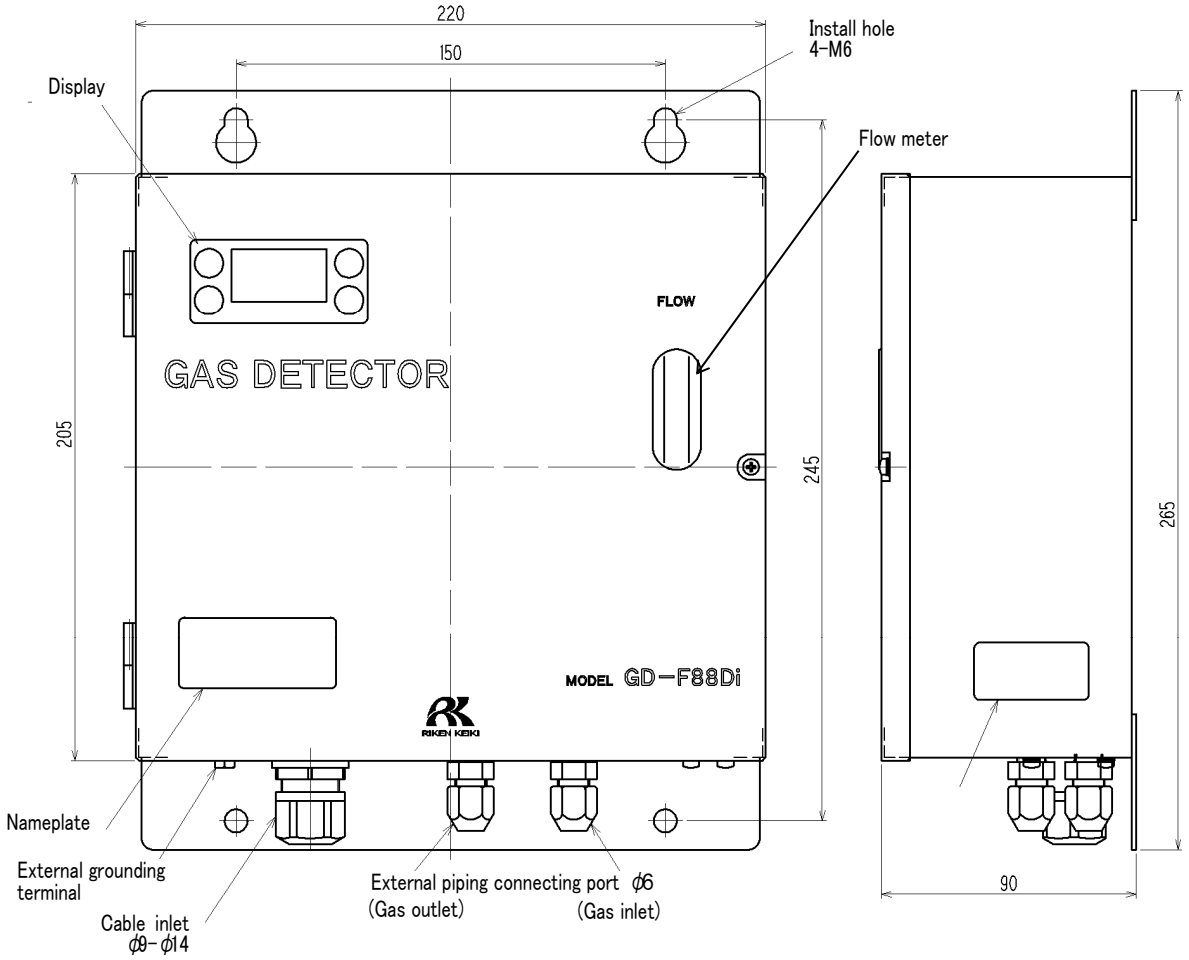
GAS DETECTOR HEAD
GD-F88Di(Oxygen Deficiency Alarm) SPECIFICATION

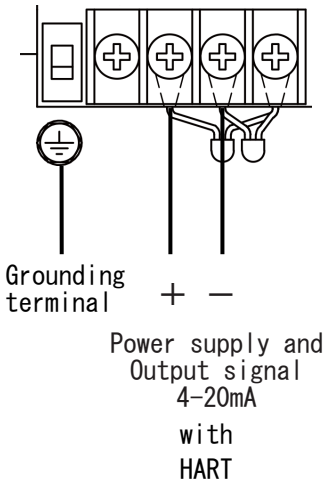
Model	GD-F88Di
Detection principle	Galvanic cell method
Gas to be detected	O2
Concentration display	7-segment LCD (4 digits)
Detection range	0～25vol%
Detection method	Suction type (suction unit is required separately)
Suction flow	0.5L/min±10%
Alarm preset point*1	18vol%(1st<L>)【Standard】 18vol%(2nd<LL>)【Standard】
Indicate accuracy*2 (under an identical condition)	Within ±0.7vol%
Response time*2 (under an identical condition)	Within 30sec(T90)(excluding delay in the tube)
Accuracy of Alarm setpoint*2	Difference between Alarm setpoint and indicated value of warning alarm are zero.
Alarm-delay time*2 (under an identical condition)	By anoxia alarm(Alarm setpoint value:18vol%), Within 5sec(when 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
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. (1.25mm^2) - 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)
Piping port	Rc1/4 (O.D Φ6-1t half-union for Teflon tube<PP>supplied)
Operating temperature	-10℃ to +40℃ (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. 220(W)x265(H)x90(D)mm (projection portions excluded)
Weight	Approx. 2.5kg
Material*1	SECC or SUS304
Paint	Bake-coated with melamine
Outer color	Munsell 2.5Y9/2

*1 Please specify your request when ordering.
*2 In conformity to JIS T8201 2010(Oxygen deficiency indicator).
*3 Recommended item

Outline Drawings



Terminal Drawings



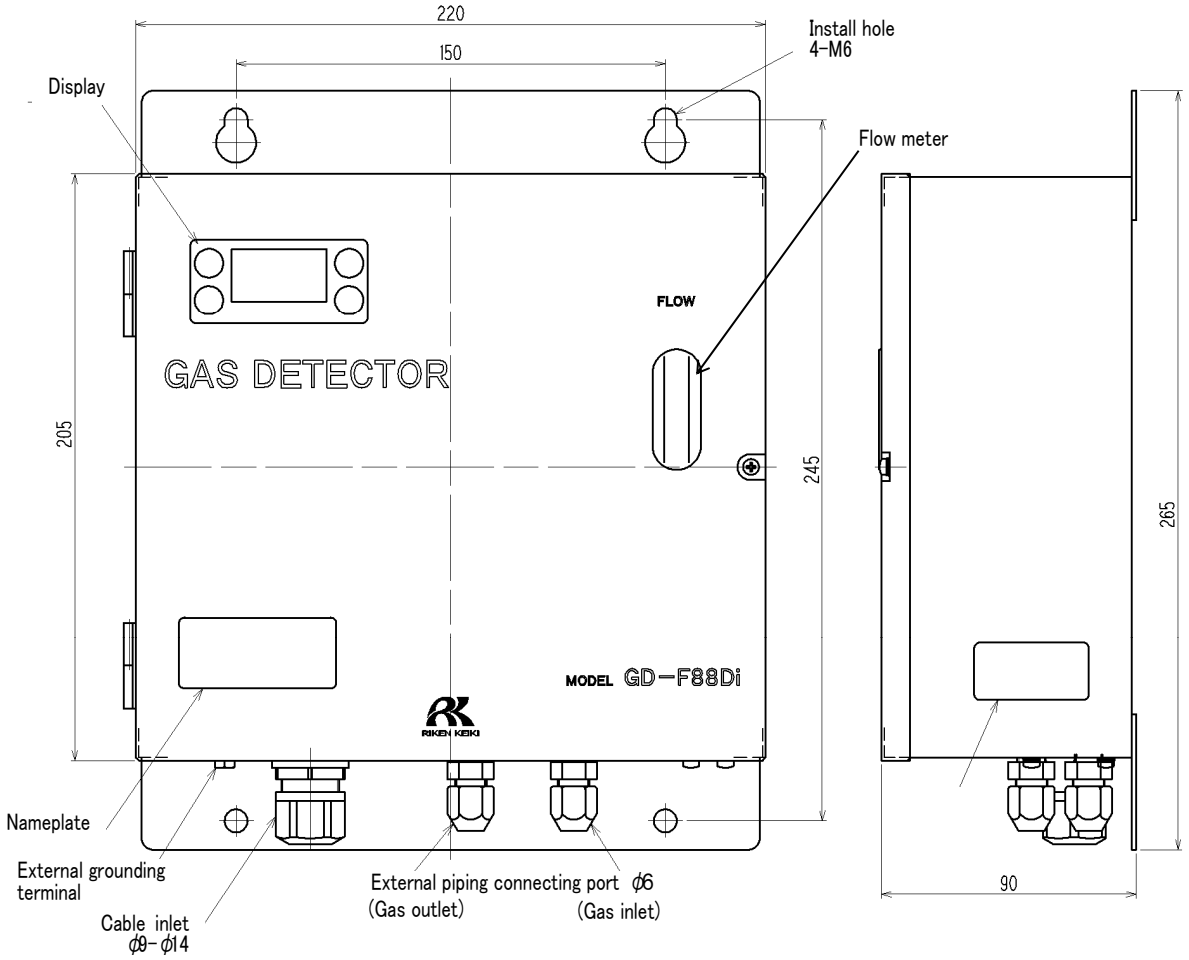
GAS DETECTOR HEAD
GD-F88Di(Gas monitoring) SPECIFICATION

Model	GD-F88Di
Detection principle	Galvanic cell method
Gas to be detected	O2
Concentration display	7-segment LCD (4 digits)
Detection range	0～5vol%/0～10vol%/0～25vol%
Detection method	Suction type (suction unit is required separately)
Suction flow	0.5L/min±10%
Alarm preset point*1	Depend on measuring range
Indicate accuracy (under an identical condition)	Within ±0.7vol%(below 25vol% range)
Response time (under an identical condition)	Within 30sec(T90)(excluding delay in the tube)
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. (1.25mm^2) - 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)
Piping port	Rc1/4 (O.D Φ6-1t half-union for Teflon tube<PP>supplied)
Operating temperature	-10℃ to +40℃ (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. 220(W)x265(H)x90(D)mm (projection portions excluded)
Weight	Approx. 2.5kg
Material*1	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