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

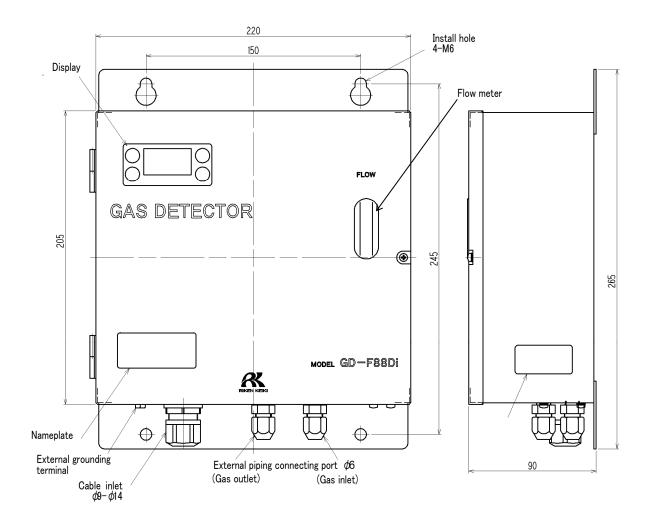
Detection principle Gas to be detected O2 Concentration display Detection range O~25vol% Detection method Suction type (suction unit is required separately) Suction flow Alarm preset point* IBvol%(Ist <l) [istandard<="" [istandard]="" [standard]="" ibvol%(ist<l)="" th=""><th>Model</th><th>GD-F88Di</th></l)>	Model	GD-F88Di
Detection range   O~25vol%	Detection principle	Galvanic cell method
Detection range Detection method Suction type (suction unit is required separately) Suction flow O.5L/min±10% Alarm preset point*¹ 18vol%(1stCL>) [Standard] 18vol%(2nd <ll>) [Standard] 18vol%(2nd<ll>) [Standard] Mithin ±0.7vol% Within ±0.7vol% Within 30sec(T90) (excluding delay in the tube) (under an identical condition) Response time*² (under an identical condition) Accuracy of Alarm setpoint*² By anoxia alarm(Alarm setpoint value:18vol%), Within 5sec (when introducing 10~11vol% gas) Gas alarm type Two-step alarm (L-LL) Alarm message (AL1/AL2) Gas alarm action* Trouble alarm self diagnosis System failure/Sensor failure Trouble alarm action Alarm (load resistance: 300 Ω or less) Communication scheme HART 7 Power supply Power onsumption Approx. 0. 6W Transmission distance Up to 1km with CWS 1.25 mm² (up to 600m between the detector head and Zener Barrier) Safety maintaining device*3 Zener Barrier (MTL7728ac/MTL7728+) or insulating barrier (MTL5541/RN221M-J1/KFD2-STG4-Ex1) Piping port Operating humidity Less than 95%RH (non-condensing) Structure Explosion-proof structure Wall mounted type Explosion-proof structure Unit initially safe explosion-proof structure, with safety maintaining device (barrier) used</ll></ll>	Gas to be detected	02
Detection method   Suction type (suction unit is required separately)	Concentration display	7-segment LCD (4 digits)
Suction flow   O.5L/min±10%   Alarm preset point*1   18vol%(1stCL) [Standard]   18vol%(2ndCLL)   18vol%   1	Detection range	0~25vo1%
Alarm preset point*  18vol%(1st <l>) [Standard]   18vol%(2nd<ll>) [Standard]   18vol%(2nd<ll) 18vol%(2nd<l<="" 18vol%(2nd<ll)="" td=""  =""><td>Detection method</td><td>Suction type (suction unit is required separately)</td></ll)></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></ll></l>	Detection method	Suction type (suction unit is required separately)
Indicate accuracy*2	Suction flow	0.5L/min±10%
Indicate accuracy*2 (under an identical condition)  Response time*2 (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 introducing 10~11vol% gas)  Gas alarm type Two-step alarm (L-LL)  Gas alarm indication Alarm message (AL1/AL2)  Gas alarm setlf 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: 300 Ω or less)  Communication scheme HART 7  Power supply 24VDC±10%  Power consumption Approx. 0.6W  Transmission distance Up to 1km with CVVS 1.25 mm² (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 (0.D Φ6-1t half-union for Teflon tube <pp>supplied)  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</pp>	Alarm preset point*1	18vol%(1st <l>) [Standard]</l>
(under an identical condition)         Within 30sec (T90) (excluding delay in the tube)           (under an identical condition)         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 action*I         Latching or non latching           Trouble alarm Self diagnosis         System failure/Sensor failure           Trouble alarm action         Non latching           Transmission method         2-wire analog transmission           Transmission specifications         4-20mADC (load resistance: 300 Ω or less)           Communication scheme         HART 7           Power supply         24VDC±10%           Power consumption         Approx. 0.6W           Transmission distance         Up to 1km with CVVS 1.25 mm² (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 (0.D Φ6-1t half-union for Teflon tube <pp>supplied)           Operating temperature         -10°C to +40°C (non-rapidly-vary)           Operating humidity         Less than 95%RH (non-condensing)           S</pp>		18vol%(2nd <ll>) 【Standard】</ll>
Response time*2 (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 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 action Content display  Trouble alarm action Non latching  Transmission method 2-wire analog transmission  Transmission specifications 4-20mADC (load resistance: 300 Ω or less)  Communication scheme HART 7  Power supply 24VDC±10%  Power consumption Approx. 0.6W  Transmission distance Up to 1km with CVVS 1.25 mm² (up to 600m between the detector head and Zener Barrier)  Safety maintaining device*3 Zener Barrier (MTL7728ac/MTL7728+/MTL7728-) or insulating barrier (MTL5741/RN221N-J1/KFD2-STC4-Ex1)  Piping port Rc1/4 (0.D Φ6-1t half-union for Teflon tube <pp>supplied)  Operating temperature -10°C to +40°C (non-rapidly-vary)  Derating humidity Less than 95%RH (non-condensing)  Explosion-proof structure Intrinsically safe explosion-proof structure, with safety maintaining device (barrier) used</pp>	Indicate accuracy*2	Within ±0.7vol%
(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 (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 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: 300 Ω 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 mm² (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 (0.0 Φ 6-1t half-union for Teflon tubexPP>supplied)         Operating temperature       -10°C to +40°C (non-condensing)         Operating humidity       Less than		
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alarm are zero.  Alarm-delay time*2 (under an identical condition)  Gas alarm type  Gas alarm indication  Alarm message (AL1/AL2)  Gas alarm action*1  Latching or non latching  Trouble alarm Self diagnosis  Trouble alarm action  Non latching  Trouble alarm action  Non latching  Transmission method  Transmission specifications  Communication scheme  HART 7  Power supply  Power consumption  Approx. 0.6W  Transmission cable  Transmission distance  Up to 1km with CVVS 1.25 mm² (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  Poperating temperature  -10°C to +40°C (non-rapidly-vary)  Operating temperature  Wall mounted type  Explosion-proof structure  Intrinsically safe explosion-proof structure, with safety maintaining device (barrier) used		
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(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 indication       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. (1.25mm²) - 2-core         Transmission distance       Up to 1km with CVVS 1.25 mm² (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 (0.D Φ6-1t half-union for Teflon tube         Operating temperature       -10°C to +40°C (non-rapidly-vary)         Operating temperature       -10°C to +40°C (non-rapidly-vary)         Operating humidity       Less than 95%RH (non-condensing)         Structure       Wall mounted type	A1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Gas alarm type  Gas alarm indication  Alarm message (AL1/AL2)  Gas alarm action*1  Latching or non latching  Trouble alarm Self diagnosis  Trouble alarm indication  Content display  Trouble alarm action  Non latching  Transmission method  2-wire analog transmission  Transmission specifications  Communication scheme  HART 7  Power supply  24VDC±10%  Power consumption  Approx. 0.6W  Transmission distance  Up to 1km with CVVS 1.25 mm² (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/KF02-STC4-Ex1)  Piping port  Re1/4 (0.D Φ6-1t half-union for Teflon tube <pp>supplied)  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, with safety maintaining device (barrier) used</pp>	•	
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Operating humidity  Structure  Explosion-proof structure  Explosion-proof structure  Intrinsically safe explosion-proof structure, with safety maintaining device (barrier) used		
Structure Wall mounted type Explosion-proof structure Intrinsically safe explosion-proof structure, with safety maintaining device (barrier) used		-10°C to +40°C (non-rapidly-vary)
Explosion-proof structure Intrinsically safe explosion-proof structure, with safety maintaining device (barrier) used		Less than 95%RH (non-condensing)
maintaining device (barrier) used		
	Explosion-proof structure	
Evolusion-proof class $E_{V}$ is $\pi C T A Ga$		
· · · ·	Explosion-proof class	Ex ia IIC T4 Ga
External dimensions Approx. 220 (W) x265 (H) x90 (D) mm (projection portions excluded)	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	Paint	
Outer color Munsell 2.5Y9/2	Outer color	Munsell 2.5Y9/2

<sup>\*1</sup> Please specify your request when ordering.

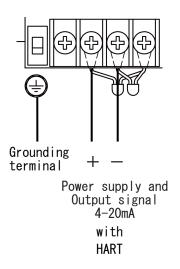
<sup>\*2</sup> In conformity to JIS T8201 2010 (Oxygen deficiency indicator).

<sup>\*3</sup> Recommended item

## Outline Drawings



## Terminal Drawings



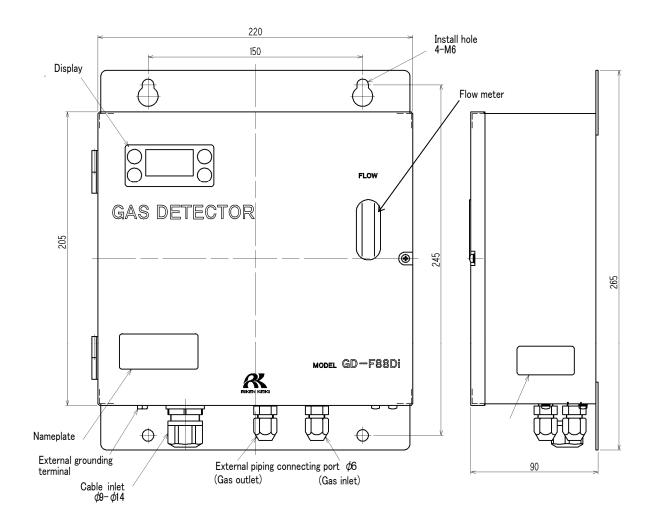
# GAS DETECTOR HEAD GD-F88Di (Gas monitoring) SPECIFICATION

Model	GD-F88Di
Detection principle	Galvanic cell method
Gas to be detected	02
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	Within ±0.7vol%(below 25vol% range)
(under an identical condition)	
Response time	Within 30sec(T90)(excluding delay in the tube)
(under an identical condition)	
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: $300 \Omega$ 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 <sup>2</sup> (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 (0.D Φ6-1t half-union for Teflon tube <pp>supplied)</pp>
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. 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
1.5.	

<sup>\*1</sup> Please specify your request when ordering.

<sup>\*2</sup> Recommended item

## Outline Drawings



### Terminal Drawings

