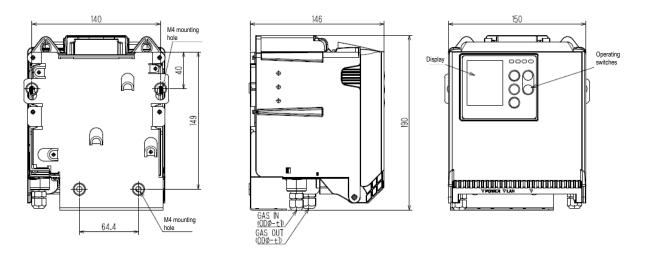
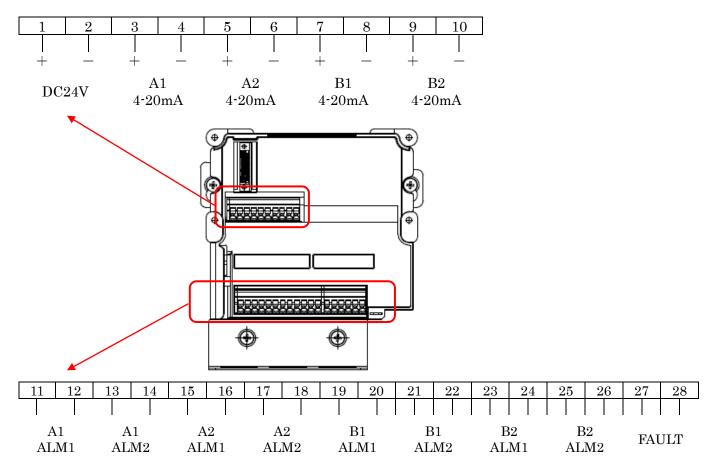
GAS DETECTOR HEAD GD-84D-EX SPECIFICATION

Model	GD-84D-EX		
Detection principle*	Electrochemical type, new ceramic type, semiconductor type, hot-wire		
	semiconductor type		
Detectable gas*	Toxic gases, combustible gases, oxygen		
Indication	Full-dot display (Gas name display, flow display, mode display,		
	communication status display, concentration display, concentration bar		
	display)		
Measuring range*	Refer to individual sensor specifications		
Detection method	Pump suction method		
Suction flow	Approx. 0.6 L/min		
Alarm setpoints*	Refer to individual sensor specifications		
Power indication	POWER LED lights up (green)		
Indication accuracy*	Refer to individual sensor specifications		
Response time*	Refer to individual sensor specifications		
Alarm accuracy*	Refer to individual sensor specifications		
Alarm delay time*	Refer to individual sensor specifications		
Gas alarm type*	Two-stage alarm (L-LL, L-H, or H-HH)		
Gas alarm indications	First alarm: ALM1 LED lights up (red)		
	Second alarm: ALM2 LED lights up (red)		
Gas alarm pattern*	Auto-reset or self-latching		
Gas alarm contact*	No-voltage contact 1a or 1b		
	Always de-energized (energized in alarm state) or always energized		
	(de-energized in alarm state)		
Fault alarm/ self-diagnosis	System abnormality, sensor abnormality, flow abnormality,		
	fan disconnection abnormality, temperature increase abnormality,		
	sensor life diagnosis		
Fault alarm indications	FAULT LED lights up (yellow)/information displayed.		
Fault alarm pattern*	Auto-reset or self-latching		
Fault alarm contacts*	Overall fault contacts: no-voltage contact 1a or 1b		
	Always de-energized (energized in alarm state) or always energized		
	(de-energized in alarm state)		
Contact capacity	24 V DC/0.5 A (resistance load)		
Contact cable	CVV or equivalent cable (1.25 mm², maximum 18 core)		
Transmission method	Analog transmission: two-wire analog transmission		
	(4 - 20 mA DC, non-insulated, resistance load 300 Ω or less, including		
	cable resistance)		
Transmission cable	Analog transmission: CVVS or equivalent shielded cable		
	(1.25 mm², maximum eight cores)		
Functions	White backlight, alarm delay, suppression, zero follower, sensitivity		
	correction, flow control,		
	calibration history, alarm trend history, event history		
Power cable	CVV or equivalent cable (1.25 mm ²), two-core		
Power source	24 V DC ± 10 %		
Power consumption	When 24 V DC is connected: approx. 8 W (maximum approx. 14 W)		
Pipe connection openings	Rc1/4 (OD ϕ 6-1 t half union for Teflon pipe <pp> supplied)</pp>		
Initialization	Approx. 25 seconds		
Operating temperature range	-10 - +40 °C (no sudden changes)		
Operating humidity range	20 - 90 % RH (No condensation; may depend on the sensors installed.)		
Construction	Wall mounting type		
External dimensions	Approx. 150 (W) × 190 (H) × 146 (D) mm (excluding projections)		
Weight	Approx. 1.9 kg		
Exterior color	Main unit: Black Front door: White		
* Please specify your request w			

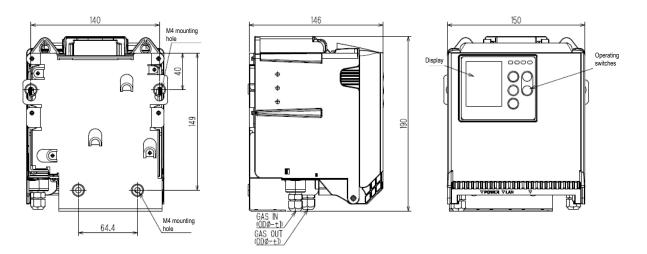


<u>Terminal Drawings</u>

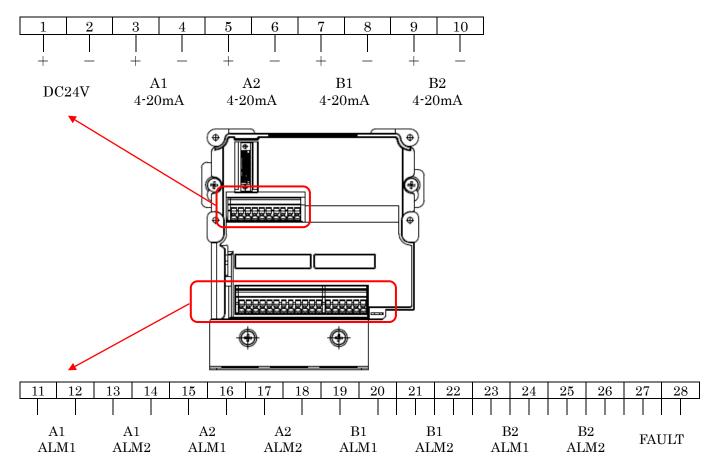


GAS DETECTOR HEAD GD-84D-EX-EC SPECIFICATION

Model	GD-84D-EX-EC
Detection principle	Electrochemical type
Detectable gas*	Toxic gases, oxygen
Indication	Full-dot display (Gas name display, flow display, mode display,
	communication status display, concentration display, concentration bar
	display)
Measuring range*	Refer to individual sensor specifications
Detection method	Pump suction method
Suction flow	Approx. 0.6 L/min
Alarm setpoints*	Refer to individual sensor specifications
Power indication	POWER LED lights up (green)
Indication accuracy*	Refer to individual sensor specifications
Response time*	Refer to individual sensor specifications
Alarm accuracy*	Refer to individual sensor specifications
Alarm delay time*	Refer to individual sensor specifications
Gas alarm type*	Two-stage alarm (L-LL, L-H, or H-HH)
Gas alarm indications	First alarm: ALM1 LED lights up (red).
	Second alarm: ALM2 LED lights up (red).
Gas alarm pattern*	Auto-reset or self-latching
Gas alarm contact*	No-voltage contact 1a or 1b
	Always de-energized (energized in alarm state) or always energized
	(de-energized in alarm state)
Fault alarm/ self-diagnosis	System abnormality, sensor abnormality, flow abnormality, temperature
	increase abnormality, sensor life diagnosis
Fault alarm indications	FAULT LED lights up (yellow)/information displayed.
Fault alarm pattern*	Auto-reset or self-latching
Fault alarm contacts*	Overall fault contacts: no-voltage contact 1a or 1b
	Always de-energized (energized in alarm state) or always energized
	(de-energized in alarm state)
Contact capacity	24 V DC/0.5 A (resistance load)
Contact cable	CVV or equivalent cable (1.25 mm ² , maximum 18 core)
Transmission method	Analog transmission: two-wire analog transmission
	$(4 - 20 \text{ mA DC}, \text{ non-insulated}, \text{ resistance load 300 } \Omega \text{ or less},$
	including cable resistance)
Transmission ashla	
Transmission cable	Analog transmission: CVVS or equivalent shielded cable
Functions	(1.25 mm ² , maximum eight cores)
Functions	White backlight, alarm delay, suppression, zero follower, sensitivity
	correction, flow control,
Dewer eable	calibration history, alarm trend history, event history
Power cable	CVV or equivalent cable (1.25 mm ²), two-core
Power source	$24 \text{ V DC} \pm 10 \%$
Power consumption	When 24 V DC is connected: approx. 2.5 W(maximum approx.7 W)
Pipe connection openings	Rc1/4 (OD ϕ 6-1 t half union for Teflon pipe <pp> supplied)</pp>
Initialization	Approx. 25 seconds
Operating temperature range	-10 - +40 °C (no sudden changes)
Operating humidity range	20 - 90 % RH (No condensation; may depend on the sensors installed.)
Construction	Wall mounting type
External dimensions	Approx. 150 (W) \times 190 (H) \times 146 (D) mm (excluding projections)
Weight	Approx. 1.9 kg
Exterior color	Main unit: Black Front door: White



<u>Terminal Drawings</u>



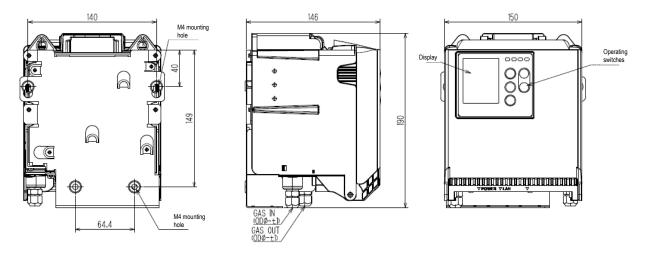
GAS DETECTOR HEAD GD-84D-EX-EA SPECIFICATION

Model	GD-84D-EX-EA		
Detection principle*	Electrochemical type, new ceramic type, semiconductor type, hot-wire		
	semiconductor type		
Detectable gas*	Toxic gases, combustible gases, oxygen		
Indication	Full-dot display (Gas name display, flow display, mode display,		
	communication status display, concentration display, concentration bar		
	display)		
Measuring range*	Refer to individual sensor specifications		
Detection method	Pump suction method		
Suction flow	Approx. 0.6 L/min		
Alarm setpoints*	Refer to individual sensor specifications		
Power indication	POWER LED lights up (green)		
Indication accuracy*	Refer to individual sensor specifications		
Response time*	Refer to individual sensor specifications		
Alarm accuracy*	Refer to individual sensor specifications		
Alarm delay time*	Refer to individual sensor specifications		
Gas alarm type*	Two-stage alarm (L-LL, L-H, or H-HH)		
Gas alarm indications	First alarm: ALM1 LED lights up (red).		
	Second alarm: ALM2 LED lights up (red).		
Gas alarm pattern*	Auto-reset or self-latching		
Gas alarm contact*	No-voltage contact 1a or 1b		
	Always de-energized (energized in alarm state) or always energized		
	(de-energized in alarm state)		
Fault alarm/ self-diagnosis	System abnormality, sensor abnormality, flow abnormality, communication		
	abnormality, fan disconnection abnormality, temperature increase		
	abnormality, sensor life diagnosis		
Fault alarm indications	FAULT LED lights up (yellow)/information displayed.		
Fault alarm pattern*	Auto-reset or self-latching		
Fault alarm contacts*	Overall fault contacts: no-voltage contact 1a or 1b		
	Always de-energized (energized in alarm state) or always energized		
	(de-energized in alarm state)		
Contact capacity	24 V DC/0.5 A (resistance load)		
Contact cable	CVV or equivalent cable (1.25 mm ² , maximum 18 core)		
Transmission method	Digital transmission: Ethernet (10BASE-T/100BASE-TX)		
	Analog transmission: two-wire analog transmission		
	$(4 - 20 \text{ mA DC}, \text{ non-insulated}, \text{ resistance load 300 } \Omega \text{ or less, including}$		
	cable resistance)		
Transmission cable	Digital transmission: CAT5e or better Ethernet cable		
	Analog transmission: CVVS or equivalent shielded cable		
	(1.25 mm ² , maximum eight cores)		
Functions	White backlight, alarm delay, suppression, zero follower, sensitivity		
	correction, flow control,		
	calibration history, alarm trend history, event history		
Power cable	CVV or equivalent cable (1.25 mm ²), two-core		
Power source	(Shared with digital transmission cable when PoE+ connection is used)		
Power source Power consumption	(Shared with digital transmission cable when PoE+ connection is used) 24 V DC \pm 10 % or PoE+ connection		
Power source Power consumption	(Shared with digital transmission cable when PoE+ connection is used) 24 V DC \pm 10 % or PoE+ connection When 24 V DC is connected: approx. 9 W (maximum approx. 15 W)		
Power consumption	$\begin{array}{c} (\text{Shared with digital transmission cable when PoE+ connection is used})\\ \hline 24 \ V \ DC \ \pm \ 10 \ \% \ \text{or PoE+ connection}\\ \hline \text{When 24 V DC is connected: approx. 9 W (maximum approx. 15 W)}\\ \hline \text{When PoE+ is connected: approx. 11 W (maximum approx. 16 W)}\\ \end{array}$		
Power consumption Pipe connection openings	(Shared with digital transmission cable when PoE+ connection is used) 24 V DC \pm 10 % or PoE+ connection When 24 V DC is connected: approx. 9 W (maximum approx. 15 W) When PoE+ is connected: approx. 11 W (maximum approx. 16 W) Rc1/4 (OD ϕ 6-1 t half union for Teflon pipe <pp> supplied)</pp>		
Power consumption Pipe connection openings Initialization	(Shared with digital transmission cable when PoE+ connection is used) 24 V DC \pm 10 % or PoE+ connection When 24 V DC is connected: approx. 9 W (maximum approx. 15 W) When PoE+ is connected: approx. 11 W (maximum approx. 16 W) Rc1/4 (OD ϕ 6-1 t half union for Teflon pipe <pp> supplied) Approx. 25 seconds</pp>		
Power consumption Pipe connection openings Initialization Operating temperature range	(Shared with digital transmission cable when PoE+ connection is used) 24 V DC \pm 10 % or PoE+ connection When 24 V DC is connected: approx. 9 W (maximum approx. 15 W) When PoE+ is connected: approx. 11 W (maximum approx. 16 W) Rc1/4 (OD ϕ 6-1 t half union for Teflon pipe <pp> supplied) Approx. 25 seconds -10 - +40 °C (no sudden changes)</pp>		
Power consumption Pipe connection openings Initialization Operating temperature range Operating humidity range	(Shared with digital transmission cable when PoE+ connection is used) 24 V DC \pm 10 % or PoE+ connection When 24 V DC is connected: approx. 9 W (maximum approx. 15 W) When PoE+ is connected: approx. 11 W (maximum approx. 16 W) Rc1/4 (OD ϕ 6-1 t half union for Teflon pipe <pp> supplied) Approx. 25 seconds -10 - +40 °C (no sudden changes) 20 - 90 % RH (No condensation; may depend on the sensors installed.)</pp>		
Power consumption Pipe connection openings Initialization Operating temperature range	(Shared with digital transmission cable when PoE+ connection is used) 24 V DC \pm 10 % or PoE+ connection When 24 V DC is connected: approx. 9 W (maximum approx. 15 W) When PoE+ is connected: approx. 11 W (maximum approx. 16 W) Rc1/4 (OD ϕ 6-1 t half union for Teflon pipe <pp> supplied) Approx. 25 seconds -10 - +40 °C (no sudden changes)</pp>		

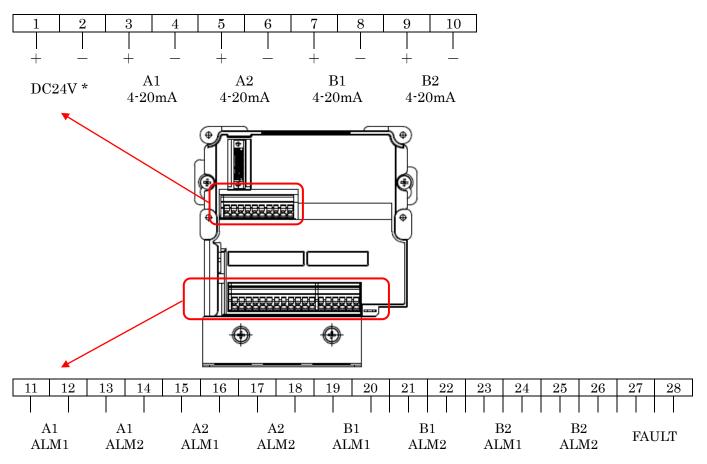
Exterior color	Main unit: B	Black Front	door: White	
* Diagon approify your request wh	on ordering			

* Please specify your request when ordering.

Outline Drawings



* RJ-45 connector for Ethernet cable connection is on the bottom of the main unit.

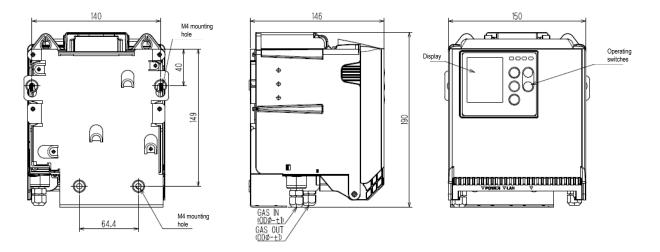


<u>Terminal Drawings</u>

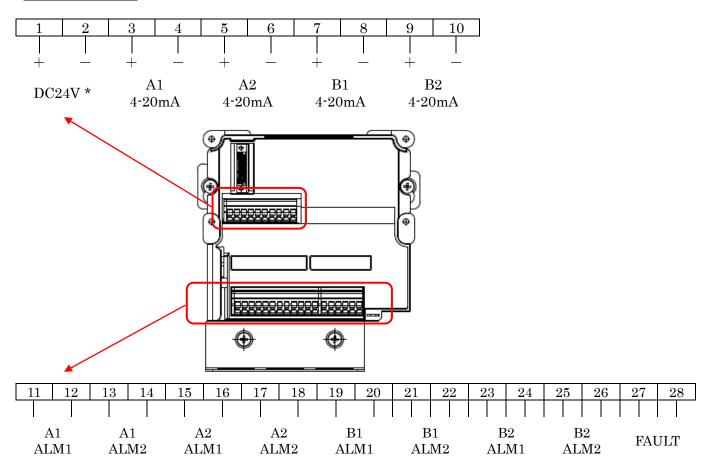
* For PoE connection, the terminals 1 and 2 are disabled. (Connection prohibited. Supply from the RJ-45 connector.)

GAS DETECTOR HEAD GD-84D-EX-EA-EC SPECIFICATION

Model	GD-84D-EX-EA-EC
Detection principle	Electrochemical type
Detectable gas*	Toxic gases, oxygen
Indication	Full-dot display (Gas name display, flow display, mode display,
	communication status display, concentration display, concentration bar
	display)
Measuring range*	Refer to individual sensor specifications
Detection method	Pump suction method
Suction flow	Approx. 0.6 L/min
Alarm setpoints*	Refer to individual sensor specifications
Power indication	POWER LED lights up (green)
Indication accuracy*	Refer to individual sensor specifications
Response time*	Refer to individual sensor specifications
Alarm accuracy*	Refer to individual sensor specifications
Alarm delay time*	Refer to individual sensor specifications
Gas alarm type*	Two-stage alarm (L-LL, L-H, or H-HH)
Gas alarm indications	First alarm: ALM1 LED lights up (red).
	Second alarm: ALM2 LED lights up (red).
Gas alarm pattern*	Auto-reset or self-latching
Gas alarm contact*	No-voltage contact 1a or 1b
	Always de-energized (energized in alarm state) or always energized
	(de-energized in alarm state)
Fault alarm/ self-diagnosis	System abnormality, sensor abnormality, flow abnormality, communication
, 3	abnormality, temperature increase abnormality, sensor life diagnosis
Fault alarm indications	FAULT LED lights up (yellow)/information displayed.
Fault alarm pattern*	Auto-reset or self-latching
Fault alarm contacts*	Overall fault contacts: no-voltage contact 1a or 1b
	Always de-energized (energized in alarm state) or always energized
	(de-energized in alarm state)
Contact capacity	24 V DC/0.5 A (resistance load)
Contact cable	CVV or equivalent cable (1.25 mm ² , maximum 18 core)
Transmission method	Digital transmission: Ethernet (10BASE-T/100BASE-TX)
	Analog transmission: two-wire analog transmission
	$(4 - 20 \text{ mA DC}, \text{ non-insulated}, \text{ resistance load 300 } \Omega \text{ or less, including}$
	cable resistance)
Transmission cable	Digital transmission: CAT5e or better Ethernet cable
	Analog transmission: CVVS or equivalent shielded cable
	(1. 25 mm ² , maximum eight cores)
Functions	White backlight, alarm delay, suppression, zero follower, sensitivity
	correction, flow control,
	calibration history, alarm trend history, event history
Power cable	CVV or equivalent cable (1.25 mm ²), two-core
	(Shared with digital transmission cable when PoE+ connection is used)
Power source	24 V DC ± 10 % or PoE+ connection
Power consumption	When 24 V DC is connected: approx. 3 W(maximum approx. 8 W)
	When PoE+ is connected: approx. 4.5 W (maximum approx. 9.5 W)
Pipe connection openings	$Rc1/4$ (OD $\phi 6-1$ t half union for Teflon pipe $\langle PP \rangle$ supplied)
Initialization	Approx. 25 seconds
Operating temperature range	-10 - +40 °C (no sudden changes)
Operating humidity range	20 - 90 % RH (No condensation; may depend on the sensors installed.)
	Wall mounting type
Construction	
Construction External dimensions	
External dimensions Weight	Approx. 150 (W) × 190 (H) × 146 (D) mm (excluding projections)Approx. 1.9 kg



* RJ-45 connector for Ethernet cable connection is on the bottom of the main unit.



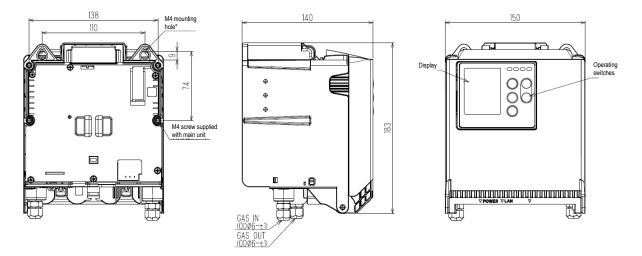
Terminal Drawings

* For PoE connection, the terminals 1 and 2 are disabled. (Connection prohibited. Supply from the RJ-45 connector.)

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GAS DETECTOR HEAD GD-84D-EX-ET SPECIFICATION

Model	GD-84D-EX-ET		
Detection principle*	Electrochemical type, new ceramic type, semiconductor type, hot-		
	wire semiconductor type		
Detectable gas*	Toxic gases, combustible gases, oxygen		
Indication	Full-dot display (Gas name display, flow display, mode display,		
	communication status display, concentration display, concentration		
	bar display)		
Measuring range*	Refer to individual sensor specifications		
Detection method	Pump suction method		
Suction flow	Approx. 0.6 L/min		
Alarm setpoints*	Refer to individual sensor specifications		
Power indication	POWER LED lights up (green)		
Indication accuracy*	Refer to individual sensor specifications		
Response time*	Refer to individual sensor specifications		
Alarm accuracy*	Refer to individual sensor specifications		
Alarm delay time*	Refer to individual sensor specifications		
Gas alarm type*	Two-stage alarm (L-LL, L-H, or H-HH)		
Gas alarm indications	First alarm: ALM1 LED lights up (red).		
	Second alarm: ALM2 LED lights up (red).		
Gas alarm pattern*	Auto-reset or self-latching		
Fault alarm/ self-diagnosis	System abnormality, sensor abnormality, flow abnormality,		
	communication abnormality, fan disconnection abnormality,		
	temperature increase abnormality, sensor life diagnosis		
Fault alarm indications	FAULT LED lights up (yellow)/information displayed.		
Fault alarm pattern*	Auto-reset or self-latching		
Transmission method	Digital transmission: Ethernet (10BASE-T/100BASE-TX)		
Transmission cable	Digital transmission: CAT5e or better Ethernet cable		
Functions	White backlight, alarm delay, suppression, zero follower,		
	sensitivity correction, flow control,		
	calibration history, alarm trend history, event history		
Power cable	Shared with digital transmission cable		
Power source	PoE+ connection		
Power consumption	When PoE+ is connected: approx. 9 W (maximum approx. 11 W)		
Pipe connection openings	Rc1/4 (OD ϕ 6-1 t half union for Teflon pipe <pp> supplied)</pp>		
Initialization	Approx. 25 seconds		
Operating temperature range	-10 - +40 °C (no sudden changes)		
Operating humidity range	20 - 90 % RH (No condensation; may depend on the sensors		
	installed.)		
Construction	Wall mounting type		
CONSTRUCTION			
External dimensions	Approx. 150 (W) \times 183 (H) \times 140 (D) mm (excluding projections)		

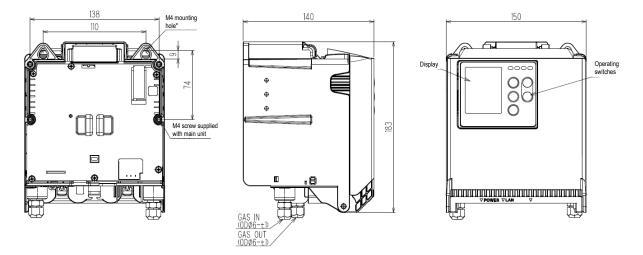


 \ast RJ-45 connector for Ethernet cable connection is on the bottom of the main unit.

GAS DETECTOR HEAD GD-84D-EX-ET-EC SPECIFICATION

Model	GD-84D-EX-ET-EC		
Detection principle*	Electrochemical type		
Detectable gas*	Toxic gases, oxygen		
Indication	Full-dot display (Gas name display, flow display, mode d		
	communication status display, concentration display, concentration bar		
	display)		
Measuring range*	Refer to individual sensor specifications		
Detection method	Pump suction method		
Suction flow	Approx. 0.6 L/min		
Alarm setpoints*	Refer to individual sensor specifications		
Power indication	POWER LED lights up (green)		
Indication accuracy*	Refer to individual sensor specifications		
Response time*	Refer to individual sensor specifications		
Alarm accuracy*	Refer to individual sensor specifications		
Alarm delay time*	Refer to individual sensor specifications		
Gas alarm type*	Two-stage alarm (L-LL, L-H, or H-HH)		
Gas alarm indications	First alarm: ALM1 LED lights up (red).		
	Second alarm: ALM2 LED lights up (red).		
Gas alarm pattern*	Auto-reset or self-latching		
Fault alarm/ self-diagnosis	System abnormality, sensor abnormality, flow abnormality, communication		
	abnormality, temperature increase abnormality, sensor life diagnosis		
Fault alarm indications	FAULT LED lights up (yellow)/information displayed.		
Fault alarm pattern*	Auto-reset or self-latching		
Transmission method	Digital transmission: Ethernet (10BASE-T/100BASE-TX)		
Transmission cable	Digital transmission: CAT x 5e or better Ethernet cable		
Functions	White backlight, alarm delay, suppression, zero follower, sensitivity correction, flow control,		
	calibration history, alarm trend history, event history		
Power cable	Shared with digital transmission cable		
Power source	PoE+ connection		
Power consumption	When PoE+ is connected: approx. 3.5 W(maximum approx.4.5 W)		
Pipe connection openings	Rc1/4 (OD ϕ 6-1 t half union for Teflon pipe <pp> supplied)</pp>		
Initialization	Approx. 25 seconds		
Operating temperature range	-10 - +40 °C (no sudden changes)		
Operating humidity range	20 - 90 % RH (No condensation; may depend on the sensors installed.)		
Construction	Wall mounting type		
External dimensions	Approx. 150 (W) \times 183 (H) \times 140 (D) mm (excluding projections)		
Weight	Approx. 1.4 kg		
Exterior color	Main unit: Black Front door: White		
+ Plasse specify your request wh			

<u>Outline Drawings</u>



 \ast RJ-45 connector for Ethernet cable connection is on the bottom of the main unit.