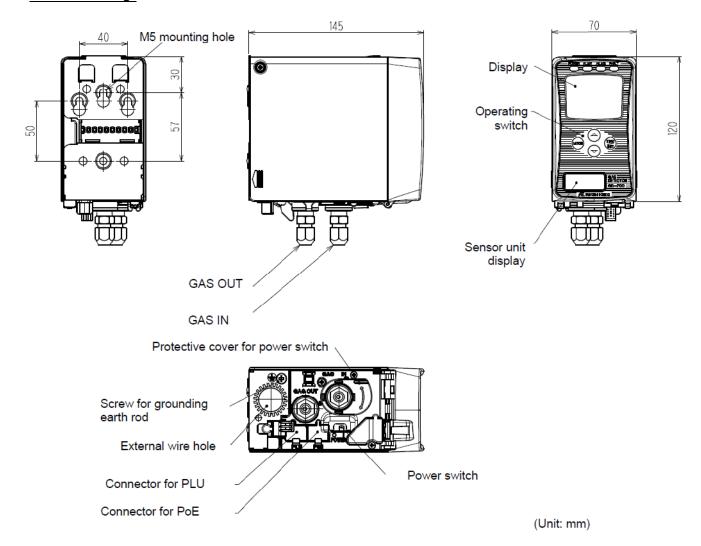
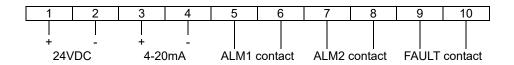
GAS DETECTOR HEAD GD-70D (ESU) SPECIFICATION

Mode I	GD-70D
Detection principle	Electrochemical method
Detectable gas*	Toxic gas
Gas concentration display	LCD(digital and bar-meter display)
Measuring range* Detection method	Depend on Detectable gas
Suction flow	Pump suction method
	0.5L/min±10%
Alarm preset point	Depend on Detectable gas
Power indication	POWER lamp lighting (green)
Various indications	Gas/Flow/Mode
Output	Gas concentration signal/Gas alarm contact/Trouble alarm contact
Alarm accuracy (under an identical condition)	Less than ±30%(against alarm preset point)
Alarm-delay time	Less than 60sec(when introducing 1.6 times thicker gas than alarm preset
(under an identical condition)	point) (without piping delay time)
Gas alarm type	Two-level alarm(H-HH)
Gas alarm indication	1st : ALM1 lamp lighting (red)
das ararılı maroacron	2nd : ALM2 lamp lighting (red)
Gas alarm action	Auto-recover
Gas alarm contact*	Each no-voltage contact 1a or 1b(contact output for each alarm)
das ararılı contact	Non-exciting at normal(exciting at alarm) or exciting at
	normal (non-exciting at alarm)
Trouble alarm • Self diagnosis	System failure/Sensor failure/Flow failure
Trouble alarm indication	FAULT lamp lighting(yellow)/content display
Trouble alarm action	Auto-recover
Trouble alarm contact*	No-voltage contact 1a or 1b Non-exciting at normal(exciting at alarm) or exciting at
Contact capacity	normal(non-exciting at alarm) DC24V • 0.5A(load resistance)
Contact cable	CVV worth cable(1.25sq) • MAX.6-core
Transmission scheme	· · · · · · · · · · · · · · · · · · ·
Transmission scheme	Three-wire analog transmission(in common with power supply power
Charification of	supply, signal, common>) or two-wire analog transmission DC4~20mA(non-isolated • load resistance less than 300Ω)
Specification of	DU4~ZUMA (non-isolated • load resistance less than 300 \(\)2)
transmission Transmission ashle	CVVC worth of chiefd coble (1.25cg) - 2 core or 2 core
Transmission cable	CVVS worth of shield cable(1.25sq) • 3-core or 2-core
Various functions	White backlight/Alarm delay/Suppress/Zero tracking/Span assist/
Down ash la	Flow control/Proofreading history/Alarm trend history/Event history
Power cable	CVV worth of cable (1.25sq) • 2-core(three-wire analog transmission is
Dower cumbly	in common with transmission cable) DC24V±10%
Power supply	
Power consumption	Approx. 1. 5W (MAX. 4W)
Piping port	Rc1/4 (PP half union for 0. D ϕ 6-1t is provided as standard accessories.)
Initial clear	Approx. 25sec
Operating temperature	0~40°C (non-rapidly-vary. It may differ according to mounted sensor.)
Operating humidity	30~70%RH(non-condensing. It may differ according to mounted sensor.)
Structure	Box type · Wall mounting type
Outer dimension	Approx. 70 (W) × 120 (H) × 145 (D) mm (projection excluding)
Weight	Approx. 0. 9kg
Color	Body: gray
	Front door: white

^{*} Please specify your request when ordering.



Terminal Drawings

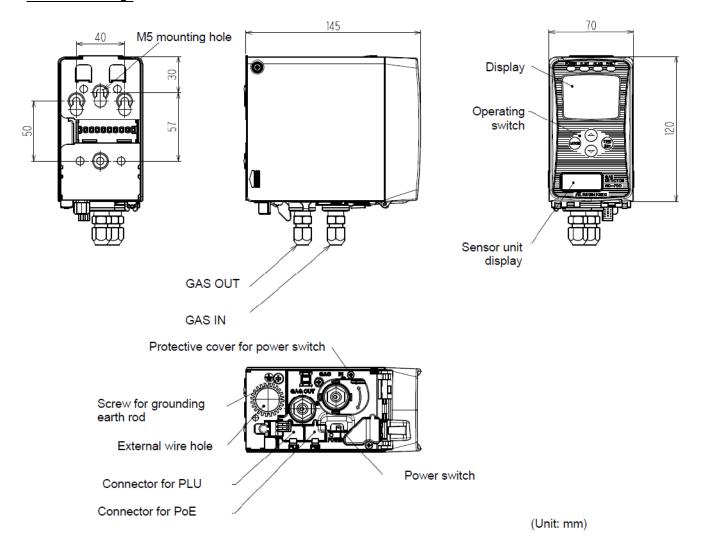


GAS DETECTOR HEAD GD-70D (ESU - Anoxia alarm) SPECIFICATION

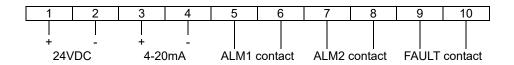
Mode I	GD-70D
Detection principle	Electrochemical method
Detectable gas	Oxygen
Gas concentration display	LCD(digital and bar-meter display)
Measuring range*1	0~25vo1%
Detection method	Pump suction method
Suction flow	0. 5L/min±10%
Alarm setpoint*1	1st 18vol% (L) / 2nd 18vol% (L) [Standard]
Power indication	POWER lamp lighting (green)
Various indications	Gas/Flow/Mode
Output	Gas concentration signal/Gas alarm contact/Trouble alarm contact
Alarm accuracy*2	Less than ±0.7vol%
(under an identical condition)	Ecos than ±0.7voly
Accuracy of Alarm setpoint*2	Difference between Alarm setpoint and indicated value of warning alarm
,	are zero.
Response time*2	Less than 30sec(T90) (without piping delay time)
(under an identical condition)	2000 chair coose (100) (mrahoda prpinig data) chine)
Alarm-delay time*2	By anoxia alarm(Alarm setpoint: 18vol%), less than 5sec(when introducing
(under an identical condition)	10∼11vol% gas) (without piping delay time)
Gas alarm type	Two-level alarm(L-LL)
Gas alarm indication	1st: ALM1 lamp lighting (red)
	2nd: ALM2 lamp lighting(red)
Gas alarm action	Auto-recover
Gas alarm contact*1	Each no-voltage contact 1a or 1b(contact output for each alarm)
	Non-exciting at normal(exciting at alarm) or exciting at
	normal(non-exciting at alarm)
Trouble alarm • Self diagnosis	System failure/Sensor failure/Flow failure
Trouble alarm indication	FAULT lamp lighting(yellow)/content display
Trouble alarm action	Auto-recover
Trouble alarm contact*1	No-voltage contact 1a or 1b
	Non-exciting at normal(exciting at alarm) or exciting at
	normal(non-exciting at alarm)
Contact capacity	DC24V · O. 5A(load resistance)
Contact cable	CVV worth cable(1.25sq) • MAX.6-core
Transmission scheme	Three-wire analog transmission(in common with power supply <power< td=""></power<>
	supply, signal, common>) or two-wire analog transmission
Specification of	$DC4 \sim 20 \text{mA} (\text{non-isolated \cdot load resistance less than } 300 \Omega)$
transmission	
Transmission cable	CVVS worth of shield cable(1.25sq) • 3-core or 2-core
Various functions	White backlight/Alarm delay/Suppress/Zero tracking/Span assist/
	Flow control/Proofreading history/Alarm trend history/Event history
Power cable	CVV worth of cable (1.25sq) • 2-core(three-wire analog transmission is
1 0 1101 0 0 0 10	in common with transmission cable)
Power supply	DC24V±10%
Power consumption	Approx. 1. 5W (MAX. 4W)
Piping port	Rc1/4 (PP half union for 0. D ϕ 6-1t is provided as standard accessories.)
Initial clear	Approx. 25sec
Operating temperature	-10~40°C (non-rapidly-vary. It may differ according to mounted sensor.)
Operating humidity	6~88%RH(non-condensing. It may differ according to mounted sensor.)
Structure	Box type • Wall mounting type
Outer dimension	Approx. 70 (W) × 120 (H) × 145 (D) mm (projection excluding)
Weight	Approx. 0. 9kg
Color	Body: gray
00101	Front door: white
*1 Please specify your request when o	

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

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



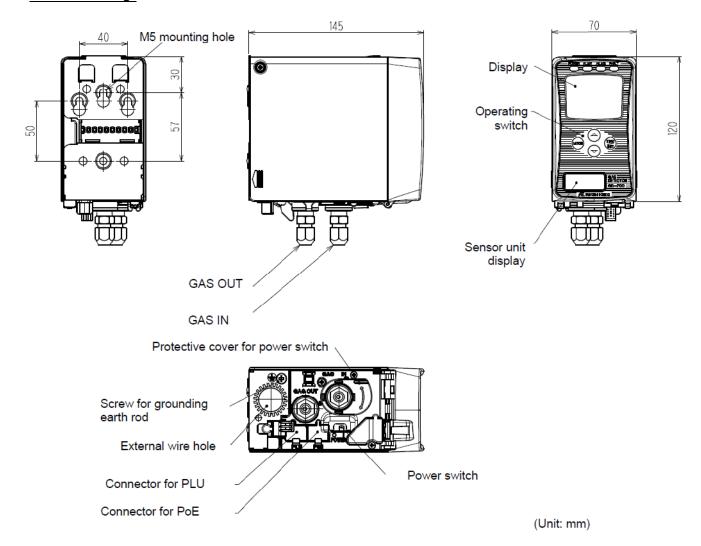
Terminal Drawings



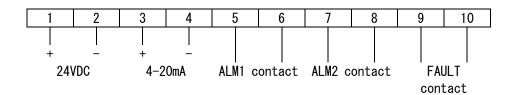
GAS DETECTOR HEAD GD-70D (SGU) SPECIFICATION

Mode I	GD-70D
Detection principle	Semi-conductor method
Detectable gas*	Combustible gas/Toxic gas
Gas concentration display	LCD(digital and bar-meter display)
Measuring range*	Depend on Detectable gas
Detection method	Pump suction method
Suction flow	0. 5L/min±10%
Alarm preset point*	Depend on Detectable gas
Power indication	POWER lamp lighting (green)
Various indications	Gas/Flow/Mode
Output	
•	Gas concentration signal/Gas alarm contact/Trouble alarm contact
Alarm accuracy* (under an identical condition)	Combustible gas: Less than ±25% (against alarm preset point)
	Toxic gas: Less than $\pm 30\%$ (against alarm preset point)
Alarm-delay time* (under an identical condition)	Less than 30sec or 60sec
(under an identical condition)	(when introducing 1.6 times thicker gas than alarm preset point) (depends
	on gas) (without piping delay time)
Gas alarm type	Two-level alarm(H-HH)
Gas alarm indication	1st: ALM1 lamp lighting (red)
	2nd: ALM2 lamp lighting(red)
Gas alarm action	Auto-recover
Gas alarm contact*	Each no-voltage contact 1a or 1b(contact output for each alarm)
	Non-exciting at normal(exciting at alarm) or exciting at
	normal(non-exciting at alarm)
Trouble alarm • Self diagnosis	System failure/Sensor failure/Flow failure
Trouble alarm indication	FAULT lamp lighting(yellow)/content display
Trouble alarm action	Auto-recover
Trouble alarm contact*	No-voltage contact 1a or 1b
	Non-exciting at normal(exciting at alarm) or exciting at
	normal(non-exciting at alarm)
Contact capacity	DC24V • 0.5A(load resistance)
Contact cable	CVV worth cable(1.25sq) • MAX.6-core
Transmission scheme	Three-wire analog transmission(in common with power supply <power< td=""></power<>
	supply, signal, common>) or two-wire analog transmission
Specification of	DC4 \sim 20mA(non-isolated · load resistance less than 300 Ω)
transmission	
Transmission cable	CVVS worth of shield cable(1.25sg) • 3-core or 2-core
Various functions	White backlight/Alarm delay/Suppress/Flow control/
Tarreas ransersne	Proofreading history/Alarm trend history/Event history
Power cable	CVV worth of cable (1.25sq) • 2-core(three-wire analog transmission is
Tower dabte	in common with transmission cable)
Power supply	DC24V±10%
Power consumption	Approx. 2. 5W (MAX. 5W)
Piping port	Rc1/4 (PP half union <for 0.="" <math="" d="">\phi 6-1t> is provided as standard accessories.)</for>
Initial clear	Approx. 25sec
Operating temperature	0~40°C (non-rapidly-vary)
Operating temperature	Less than 95%RH(non-condensing)
Structure	· · · · · · · · · · · · · · · · · · ·
	Box type · Wall mounting type
Outer dimension	Approx. 70 (W) × 120 (H) × 145 (D) mm (projection excluding)
Weight	Approx. 0. 9kg
Color	Body: gray
	Front door : white

^{*} Please specify your request when ordering.



Terminal Drawings

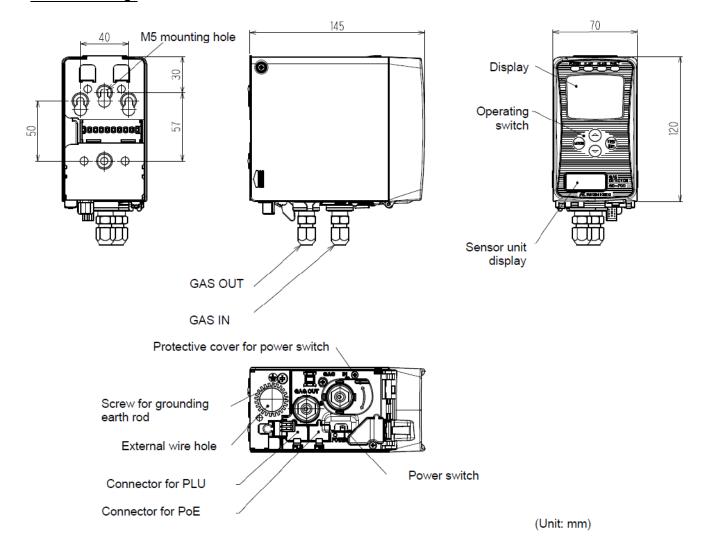


GAS DETECTOR HEAD GD-70D (OSU - Anoxia alarm) SPECIFICATION

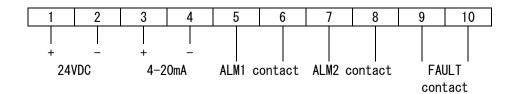
Mode I	GD-70D
Detection principle	Galvanic cell method
Detectable gas	02
Gas concentration display	LCD(digital and bar-meter display)
Measuring range	0~25vo1%
Detection method	Pump suction method
Suction flow	0. 5L/min±10%
Alarm preset point*1	18vol%(1st <l>)/18vol%(2nd<ll>) [Standard]</ll></l>
Power indication	POWER lamp lighting(green)
Various indications	Gas/Flow/Mode
Output	Gas concentration signal/Gas alarm contact/Trouble alarm contact
Indicate accuracy*2 (under an identical condition)	Less than ±0.7vol%
Accuracy of Alarm setpoint*2	Difference between Alarm setpoint and indicated value of warning alarm are zero.
Response time*2	Less than 30sec(T90)(without piping delay time)
(under an identical condition)	. , , , , , , , , , , , , , , , , , , ,
Alarm-delay time*2	By anoxia alarm(Alarm preset point : 18vol%), less than 5sec(when
(under an identical condition)	introducing 10∼11vol% gas)(without piping delay time)
Gas alarm type	Two-level alarm(L-LL or L-H)
Gas alarm indication	1st: ALM1 lamp lighting(red)
	2nd: ALM2 lamp lighting(red)
Gas alarm action	Auto-recover
Gas alarm contact*1	Each no-voltage contact 1a or 1b(contact output for each alarm)
	Non-exciting at normal(exciting at alarm) or exciting at
	normal(non-exciting at alarm)
Trouble alarm • Self diagnosis	System failure/Sensor failure/Flow failure
Trouble alarm indication	FAULT lamp lighting(yellow)/content display
Trouble alarm action	Auto-recover
Trouble alarm contact*1	No-voltage contact 1a or 1b
	Non-exciting at normal(exciting at alarm) or exciting at
	normal(non-exciting at alarm)
Contact capacity	DC24V · O. 5A(load resistance)
Contact cable	CVV worth cable(1.25sq) • MAX.6-core
Transmission scheme	Three-wire analog transmission(in common with power supply <power< td=""></power<>
	supply, signal, common>) or two-wire analog transmission
Specification of	$DC4 \sim 20$ mA(non-isolated · load resistance less than 300Ω)
transmission	
Transmission cable	CVVS worth of shield cable(1.25sg) • 3-core or 2-core
Various functions	White backlight/Alarm delay/Suppress/Flow control/
	Proofreading history/Alarm trend history/Event history
Power cable	CVV worth of cable (1.25sq) • 2-core(three-wire analog transmission is
	in common with transmission cable)
Power supply	DC24V±10%
Power consumption	Approx. 1. 5W (MAX. 4W)
Piping port	Rc1/4 (PP half union for 0. D ϕ 6-1t is provided as standard accessories.)
Initial clear	Approx. 25sec
Operating temperature	0~40°C (non-rapidly-vary)
Operating humidity	Less than 95%RH(non-condensing)
Structure	Box type • Wall mounting type
Outer dimension	Approx. 70 (W) × 120 (H) × 145 (D) mm (projection excluding)
Weight	Approx. 0. 9kg
Color	Body: gray
	Front door: white

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

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



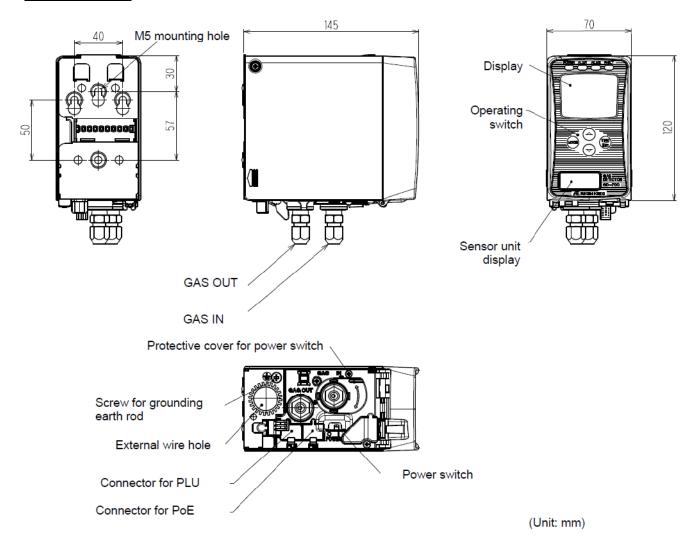
Terminal Drawings



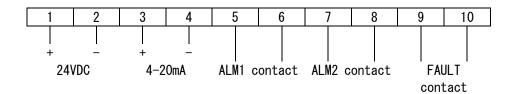
GAS DETECTOR HEAD GD-70D (OSU - Gas monitoring) SPECIFICATION

Mode I	GD-70D
Detection principle	Galvanic cell method
Detectable gas	02
Gas concentration display	LCD(digital and bar-meter display)
	$0 \sim 5 \text{vol} \% / 0 \sim 25 \text{vol} \% / 0 \sim 50 \text{vol} \% / 0 \sim 100 \text{vol} \%$
Measuring range Detection method	Pump suction method
Suction flow	0.5L/min±10%
Alarm preset point* Power indication	Depend on measuring range
Various indications	POWER lamp lighting (green)
	Gas/Flow/Mode
Output	Gas concentration signal/Gas alarm contact/Trouble alarm contact
Indicate accuracy (under an identical condition)	Less than ±0.7vol%(below 25vol% range)
	Less than ±3vol% (above 25vol% range)
Response time (under an identical condition)	Less than 30sec(T90)(without piping delay time)
Gas alarm type*	Two-level alarm(H-HH or L-H, L-LL)
Gas alarm indication	1st : ALM1 lamp lighting (red)
	2nd : ALM2 lamp lighting (red)
Gas alarm action	Auto-recover
Gas alarm contact*	Each no-voltage contact 1a or 1b(contact output for each alarm)
uus ururiii somaas	Non-exciting at normal (exciting at alarm) or exciting at normal
	(non-exciting at alarm)
Trouble alarm • Self diagnosis	System failure/Sensor failure/Flow failure
Trouble alarm indication	FAULT lamp lighting(yellow)/content display
Trouble alarm action	Auto-recover
Trouble alarm contact*	No-voltage contact 1a or 1b
Treatre ararm consuct	Non-exciting at normal (exciting at alarm) or exciting at normal
	(non-exciting at alarm)
Contact capacity	DC24V • 0.5A(load resistance)
Contact cable	CVV worth cable(1.25sq) • MAX.6-core
Transmission scheme	Three-wire analog transmission(in common with power supply <power< td=""></power<>
	supply, signal, common>) or two-wire analog transmission
Specification of	$DC4 \sim 20 \text{mA} (\text{non-isolated \cdot load resistance less than } 300 \Omega)$
transmission	· ·
Transmission cable	CVVS worth of shield cable(1.25sg) • 3-core or 2-core
Various functions	White backlight/Alarm delay/Suppress/Flow control/
	Proofreading history/Alarm trend history/Event history
Power cable	CVV worth of cable (1.25sg) • 2-core(three-wire analog transmission is
	in common with transmission cable)
Power supply	DC24V±10%
Power consumption	Approx. 1. 5W (MAX. 4W)
Piping port	Rc1/4(PP half union for 0. D ϕ 6-1t is provided as standard accessories.)
Initial clear	Approx. 25sec
Operating temperature	0~40°C (non-rapidly-vary)
Operating humidity	Less than 95%RH(non-condensing)
Structure	Box type • Wall mounting type
Outer dimension	Approx. 70 (W) \times 120 (H) \times 145 (D) mm (projection excluding)
Weight	Approx. 0. 9kg
Color	Body: gray
	Front door: white

^{*} Please specify your request when ordering.

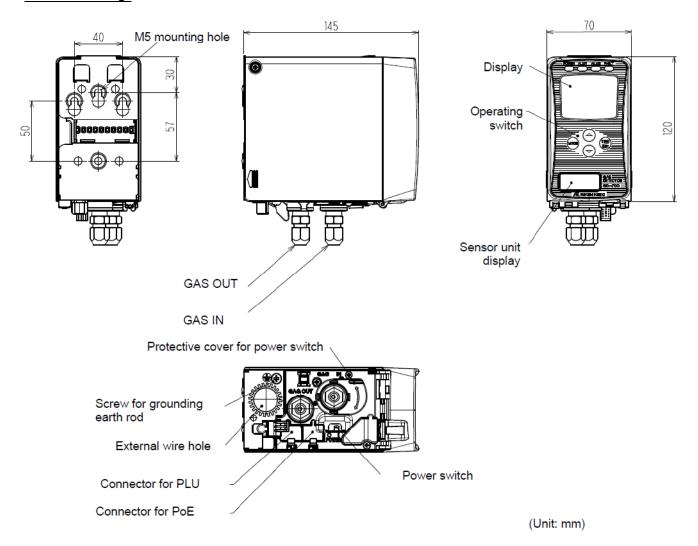


Terminal Drawings

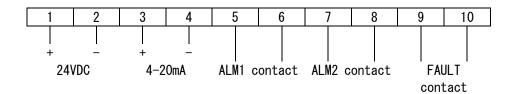


GAS DETECTOR HEAD GD-70D (NCU) SPECIFICATION

^{*} Please specify your request when ordering.



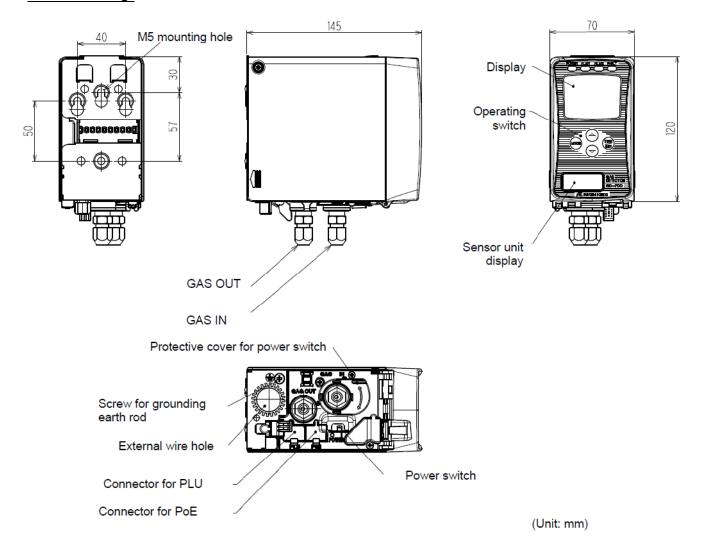
Terminal Drawings



GAS DETECTOR HEAD GD-70D (SHU) SPECIFICATION

Mode I	GD-70D
Detection principle	Hot wire semiconductor method
Detectable gas	H2
Gas concentration display	LCD(digital and bar-meter display)
Measuring range	0-2000ppm
Detection method	Pump suction method
	'
Suction flow	0.5L/min±10%
Alarm preset point*	1st: 500ppm 2nd: 1000ppm [Standard setting]
Power indication	POWER lamp lighting(green)
Various indications	Gas/Flow/Mode
Output	Gas concentration signal/Gas alarm contact/Trouble alarm contact
Alarm accuracy	Less than ±25%(against alarm preset point)
(under an identical condition)	1 th 20
Alarm-delay time (under an identical condition)	Less than 30sec
(under an identical condition)	(when introducing 1.6 times thicker gas than alarm preset point) (without
	piping delay time)
Gas alarm type	Two-level alarm(H-HH)
Gas alarm indication	1st: ALM1 lamp lighting (red)
	2nd: ALM2 lamp lighting(red)
Gas alarm action	Auto-recover
Gas alarm contact*	Each no-voltage contact 1a or 1b(contact output for each alarm)
	Non-exciting at normal(exciting at alarm) or exciting at
	normal(non-exciting at alarm)
Trouble alarm • Self diagnosis	System failure/Sensor failure/Flow failure
Trouble alarm indication	FAULT lamp lighting(yellow)/content display
Trouble alarm action	Auto-recover
Trouble alarm contact*	No-voltage contact 1a or 1b
	Non-exciting at normal(exciting at alarm) or exciting at
	normal(non-exciting at alarm)
Contact capacity	DC24V • 0.5A(load resistance)
Contact cable	CVV worth cable(1.25 mm ²) • MAX.6-core
Transmission scheme	Three-wire analog transmission(in common with power supply <power< td=""></power<>
	supply, signal, common>) or two-wire analog transmission
Specification of	DC4-20mA(non-isolated · load resistance less than 300Ω)
transmission	
Transmission cable	CVVS worth of shield cable(1.25 mm ²) • 3-core or 2-core
Various functions	White backlight/Alarm delay/Suppress/Flow control/
	Proofreading history/Alarm trend history/Event history
Power cable	CVV worth of cable (1.25 mm ²) • 2-core(three-wire analog transmission is
	in common with transmission cable)
Power supply	DC24V±10%
Power consumption	Approx. 3W (MAX. 5W)
Piping port	Rc1/4 (PP half union for 0. D ϕ 6-1t is provided as standard accessories.)
Initial clear	Approx. 25sec
Operating temperature	0-40°C (non-rapidly-vary)
Operating humidity	Less than 95%RH(non-condensing)
Structure	Box type · Wall mounting type
Outer dimension	Approx. 70 (W) × 120 (H) × 145 (D) mm (projection excluding)
Weight	Approx. 0. 9kg
	Body: gray
Color	
	Front door: white

st Please specify your request when ordering.



Terminal Drawings

