

For N_2O gas detection
Gas Sensor-Transmitter

Model GD-70D (IRU)



(Sensor Module)

- Small size
- Light weight
- Low power use



SPECIFICATIONS:

Model	GD-70D (IRU)
Detection principle	Non-dispersive infrared (NDIR) absorption method
Target gas	N ₂ O
Gas concentration display	LCD (digital and bar-meter display)
Measuring range	0-500 ppm
Sampling method	Pump draw method (Flow rate: 0.5L/min ± 10%)
Alarm preset point*	50 ppm / 100 ppm (standard setting)
Power indication	POWER visual indicator (green)
Various indications	Gas / Flow / Mode
Output	Gas concentration / Gas alarm contact / Trouble alarm contact
Alarm accuracy (under identical condition)	Less than ±30% (referenced to the alarm set point)
Alarm-delay time (under identical condition)	Less than 30 sec (when introducing gas concentration 1.6 times larger than the alarm set point) (not including sample tube delay)
Gas alarm type	Two-level alarm (H-HH)
Gas alarm indication	1st: ALM1 Visual indicator (red) 2nd: ALM2 Visual indicator (red)
Gas alarm action	Auto-reset
Gas alarm relay contact*	Dry relay contact: 1a or 1b (one contact output for each alarm) Normally de-energized (energized upon alarm) or Normally energized (de-energized upon alarm)
Trouble alarm · Self diagnosis	System failure / Sensor failure / Flow failure
Trouble alarm indication	FAULT Visual indicator (yellow) / display message
Trouble alarm action	Auto-reset
Trouble alarm contact*	Dry relay contact, Normally de-energized (energized upon alarm) or Normally energized (de-energized upon alarm)
Contact current rating	0.25 A @ 120 VAC, 0.50 A @ 24 VDC (resistive load)
Contact cable	CVV worth cable (1.25mm ²)·MAX.6-core
Output signal wiring type	Three-wire analog transmission (in common with power supply<power supply, signal, common>) or two-wire analog transmission
Output signal type	4-20 mA (non-isolated·load resistance less than 300Ω)
Transmission cable	CVVS worth of shield cable (1.25mm ²)·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 (1.25mm ²)·2-core (three-wire analog transmission is in common with transmission cable)
Power supply	24 VDC ± 10% Power consumption: Approx.3W (MAX.5W)
Tubing Connection	4mm x 6mm rigid tubing
Initial clear	Approx. 25sec
Operating temperature	0-40°C (slow transition)
Operating humidity	Less than 95 %RH (non-condensing.)
Structure	Wall mount enclosure
Outer dimension	Approx. 70(W) × 120(H) × 145(D)mm
Weight	Approx. 0.9kg
Color	Body: gray Front door: white

* Please specify operation mode when ordering.

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