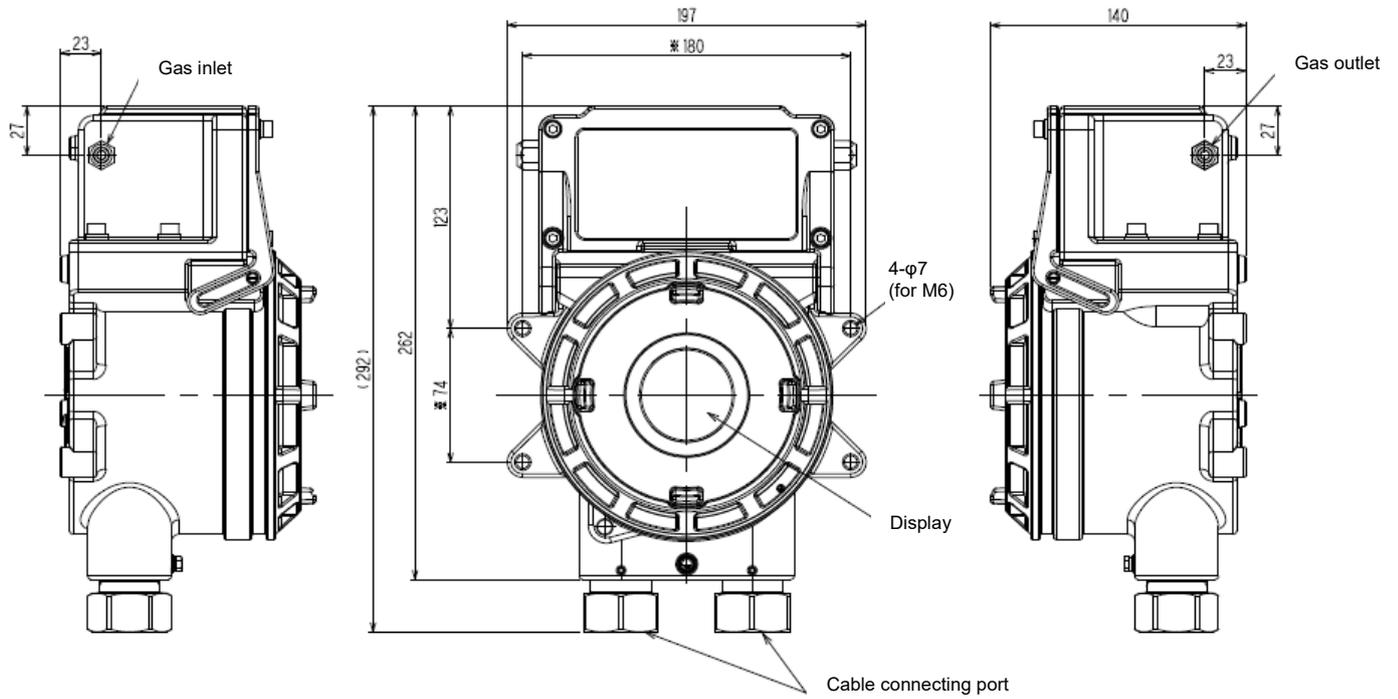


GAS DETECTOR WITH SIGNAL CONVERTER SD-D58-DC (TYPE GP) (ATEX) SPECIFICATION

Model	SD-D58 · DC
Type	TYPE GP
Detection principle	Catalytic combustion type
Gas to be detected*	Combustible gas
Display	Seven-segment LED (four-digit)
Detection range	0 - 100%LEL
Display resolution	0.5%LEL
Detection method	Sample-drawing
Flow rate	1.0L/min or more (at maximum suction pressure of 5.0kPa <gauge pressure>)
Alarm setpoint value	25%LEL [standard setting value]
Power display	POWER lamp on (green)
External output*	Gas concentration signal/alarm contact (gas alarm or fault alarm, gas/fault common alarm)
Alarm accuracy (under the same conditions)	Within $\pm 25\%$ to the alarm setpoint value
Response time (under the same conditions)	Within 30 seconds after providing the gas 1.6 times the alarm setpoint (excluding delay in the tube)
Gas alarm type	One-step alarm (H)
Gas alarm display	ALM lamp on (red)
Gas alarm pattern	Non latching (Auto-reset)
Fault alarm/self diagnosis	System abnormalities/sensor abnormalities/low flow rates
Fault alarm display	FAULT lamp on (yellow)/detail display
Fault alarm pattern	Non latching (Auto-reset)
Alarm contact*	No-voltage contact 1a, de-energized (energized in response to an alarm) or energized (de-energized in response to an alarm)
Contact capacity	30VDC - 0.5A (resistant load)
Transmission system	3-wire type analog transmission (common cable for power and signal<power, signal, common>)
Transmission specifications	4 - 20mA DC (no-insulation/load resistance under 300 Ω)
Power/contact/transmission cable	Shielded cable of CVVS, etc. (1.25mm ² or 2.0mm ²) - 3-core (when the contact is not used) Shielded cable of CVVS, etc. (1.25mm ² or 2.0mm ²) - 5-core (when the contact is used)
Transmission distance	Less than 250m in case of CVV 1.25mm ² Less than 450m in case of CVV 2.0mm ²
Functions	Alarm delay/suppression
Power supply	24VDC $\pm 10\%$
Power consumption	Maximum 8.7W
Cable connecting port*	Pressure proof packing gland<G3/4>(Compatible cables $\phi 9.0 \sim \phi 16.0$ mm in outer diameter)
Tube connecting port*	Rc1/8 (0. D $\phi 8$ -1t half-union for Cu tube <Bs> supplied or half-union for SUS tube <SUS>)
Initial clear	Approx. 25sec
Operating temperature	-20 - +53°C (Non-rapidly-vary)
Operating humidity	Below 95%RH (Non-condensing)
Structure	Wall mounting type (2B<50A> pipe installation supported)
Explosion-proof structure	Flame-proof enclosures
Explosion-proof class	II 2G Ex db h II B+H2 T4 Gb
Explosion-proof approval No.	DNV 21 ATEX 63457X
IP rating	Equivalent to IP67
Dimension	Approx. 197 (W) x 292 (H) x 140 (D) mm (projection portions excluded)
Weight	Approx. 5.8kg
Outer color	Munsell 7.5BG5/2

*Please specify your request when ordering.

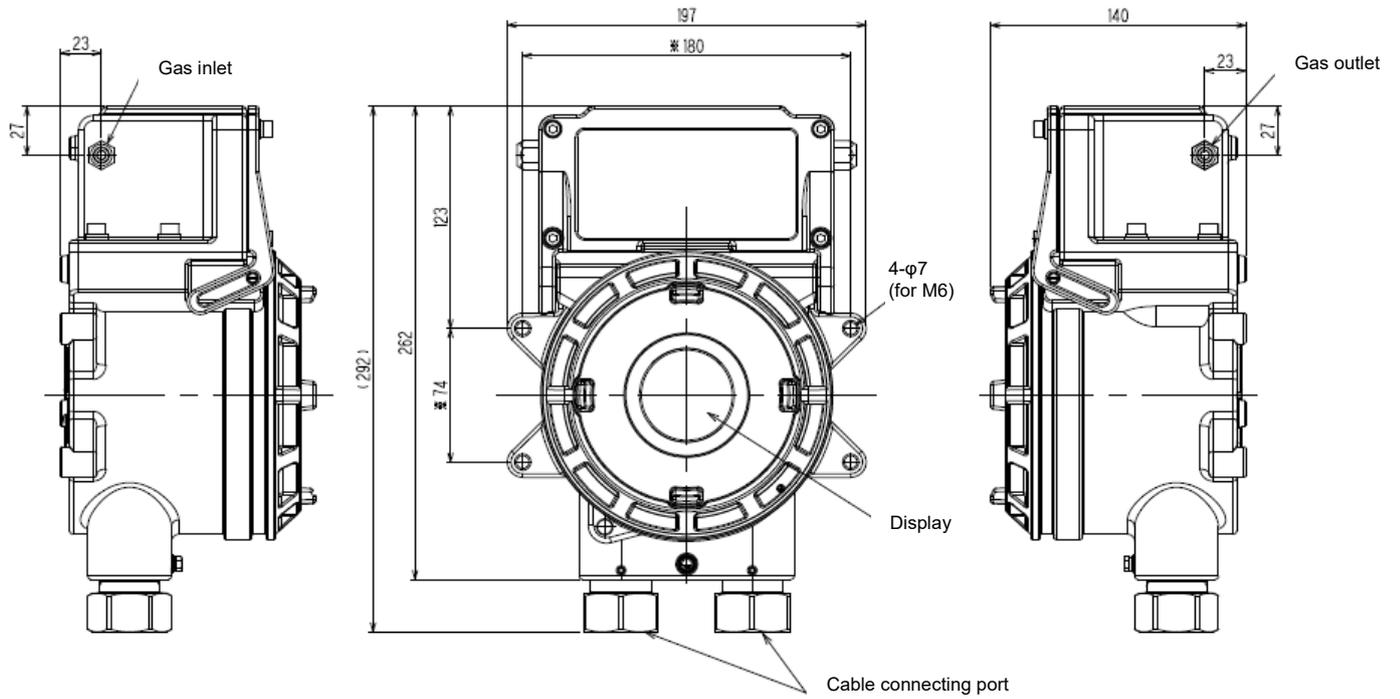
Outline Drawings**Terminal Drawings**

1	2	3	4	5
DC (+)	DC (-) Common	Sig. (+)	Contact	Contact
24VDC Input		4-20mA Output		

GAS DETECTOR WITH SIGNAL CONVERTER **SD-D58-DC (TYPE NC) (ATEX) SPECIFICATION**

Model	SD-D58 · DC
Type	TYPE NC
Detection principle	New ceramic type
Gas to be detected*	Combustible gas
Display	Seven-segment LED (four-digit)
Detection range*	Depending on the gas to be detected
Display resolution	Depending on the gas to be detected
Detection method	Sample-drawing
Flow rate	1.0L/min or more (at maximum suction pressure of 5.0kPa <gauge pressure>)
Alarm setpoint value*	Depending on the gas to be detected
Power display	POWER lamp on (green)
External output*	Gas concentration signal/alarm contact (gas alarm or fault alarm, gas/fault common alarm)
Alarm accuracy (under the same conditions)	Within $\pm 25\%$ to the alarm setpoint value
Response time (under the same conditions)	Within 30 seconds after providing the gas 1.6 times the alarm setpoint (excluding delay in the tube)
Gas alarm type	One-step alarm (H)
Gas alarm display	ALM lamp on (red)
Gas alarm pattern	Non latching (Auto-reset)
Fault alarm/self diagnosis	System abnormalities/sensor abnormalities/low flow rates
Fault alarm display	FAULT lamp on (yellow)/detail display
Fault alarm pattern	Non latching (Auto-reset)
Alarm contact*	No-voltage contact 1a, de-energized (energized in response to an alarm) or energized (de-energized in response to an alarm)
Contact capacity	30VDC - 0.5A (resistant load)
Transmission system	3-wire type analog transmission (common cable for power and signal<power, signal, common>)
Transmission specifications	4 - 20mADC (no-insulation/load resistance under 300 Ω)
Power/contact/transmission cable	Shielded cable of CVVS, etc. (1.25mm ² or 2.0mm ²) - 3-core (when the contact is not used) Shielded cable of CVVS, etc. (1.25mm ² or 2.0mm ²) - 5-core (when the contact is used)
Transmission distance	Less than 250m in case of CVV 1.25mm ² Less than 450m in case of CVV 2.0mm ²
Functions	Alarm delay/suppression/zero follower
Power supply	24VDC $\pm 10\%$
Power consumption	Maximum 8.7W
Cable connecting port*	Pressure proof packing gland<G3/4>(Compatible cables $\phi 9.0 \sim \phi 16.0$ mm in outer diameter)
Tube connecting port*	Rc1/8 (0. D $\phi 8$ -1t half-union for Cu tube <Bs> supplied or half-union for SUS tube <SUS>)
Initial clear	Approx. 25sec
Operating temperature	-20 - +53°C (Non-rapidly-vary)
Operating humidity	Below 95%RH (Non-condensing)
Structure	Wall mounting type (2B<50A> pipe installation supported)
Explosion-proof structure	Flame-proof enclosures
Explosion-proof class	II 2G Ex db h II B+H2 T4 Gb
Explosion-proof approval No.	DNV 21 ATEX 63457X
IP rating	Equivalent to IP67
Dimension	Approx. 197 (W) x 292 (H) x 140 (D) mm (projection portions excluded)
Weight	Approx. 5.8kg
Outer color	Munsell 7.5BG5/2

*Please specify your request when ordering.

Outline Drawings**Terminal Drawings**

1	2	3	4	5
DC (+)	DC (-) Common	Sig. (+)	Contact	Contact
24VDC Input		4-20mA Output		