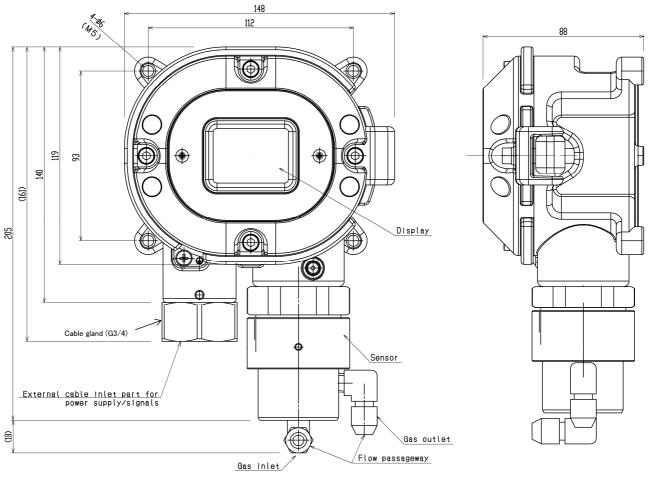
GAS DETECTOR WITH SIGNAL CONVERTER SD-1DOX (ATEX-IECEx/Anoxia alarm) SPECIFICATION

B	
Detection principle	Galvanic cell method
Detectable gas	02
Gas concentration display	LED (4digits • 7segments)
Measuring range	0~25vo1%
Detection method	Suction method(pour into by external unit)
Suction flow	1.5±0.5L/min
Alarm preset point*1	18vol%(L) [Standard]
Power indication	POWER lamp lighting(green)
Output*1	Gas concentration signal
Indicate accuracy*2	Alarm contact(Gas alarm or Trouble alarm or Gas • Trouble common alarm) Within ±0.7vol%
(under an identical condition)	WILIIII ±0.7V01%
Accuracy of Alarm setpoint*2	Difference between Alarm setpoint and indicated value of warning alarm
D	are zero.
Response time*2 (under an identical condition)	Within 30sec(T90) (without piping delay time)
Alarm accuracy*2	Within ±1vol% to the alarm setpoint value
(under an identical condition)	The street was a street with a support to the street was a street with a support to the street was a street with a street was a street was a street with a street was a street was a street with a street was a stree
Alarm-delay time*2	By anoxia alarm(Alarm setpoint value: 18vol%), Within 5sec(when
(under an identical condition)	introducing 10∼11vol% gas)(without piping delay time)
Gas alarm type	Single alarm(L)
Gas alarm indication	ALM lamp lighting(red)
Gas alarm action	Auto-recover
Trouble alarm • Self diagnosis	System failure/Sensor failure
Trouble alarm indication	FAULT lamp lighting(yellow)/content display
Trouble alarm action	Auto-recover
Alarm contact*1	No-voltage contact 1a • Non-exciting at normal(exciting at alarm) or
	exciting at normal(non-exciting at alarm)
Contact capacity	AC250V • 0.5A/DC30V • 0.5A(resistive load)
Transmission scheme	Three-wire analog transmission (in common with power supply <power common="" signal,="" supply,="">)</power>
Specification of	DC4~20mA
transmission	(linear·load resistance less than 300Ω·resolution ability 200division)
Transmission cable	CVVS worth of shield cable (1.25mm ² or 2.0mm ²) • 3-core
	(by not using alarm contact)
	CVVS worth of shield cable (1. 25mm ² or 2. 0mm ²) • 5-core
Transmission distance	(by using alarm contact)
Transmission distance	Less than 1.25km
Power supply Power consumption	DC24V±10% MAX. 1. 1W
Cabling port*1	Pressure proof packing gland <g3 4=""></g3>
Capting por t	(Compatible cables ϕ 9.6 \sim 10.5mm in outer diameter and rubber seals
	ϕ 11mm in inner diameter (mounted))
	(Compatible cables ϕ 11.5 \sim 12.5mm in outer diameter and rubber seals
	ϕ 13mm in inner diameter (accessory)
Di i	or Adapter A <npt1 2=""> , Adapter B<npt3 4=""></npt3></npt1>
Piping port	Rc1/8 (with PP elbow union for 0.D ϕ 6-1t · PTFE pipe)
Initial clear	Approx. 25sec
Operating temperature	-10~+40°C (non-rapidly-vary)
Operating humidity	Less than 95%RH (non-condensing)
Structure	Wall mounting type
Explosion-proof structure	Flame proof structure
Explosion-proof grade	II 2GExd II CT6Gb (DEKRA/ATEX) (IECEx)
Explosion-proof approval No.	DEKRA13ATEX0035X (ATEX) / IECExDEK13. 0024X (IECEx)
Outer dimension	Approx.148(W) × 205(H) × 88(D) mm (projection excluding)
Weight	Approx. 2. 9kg
Color	Munsell 7. 5BG5/2
*1 Please specify your request when a	rdoring

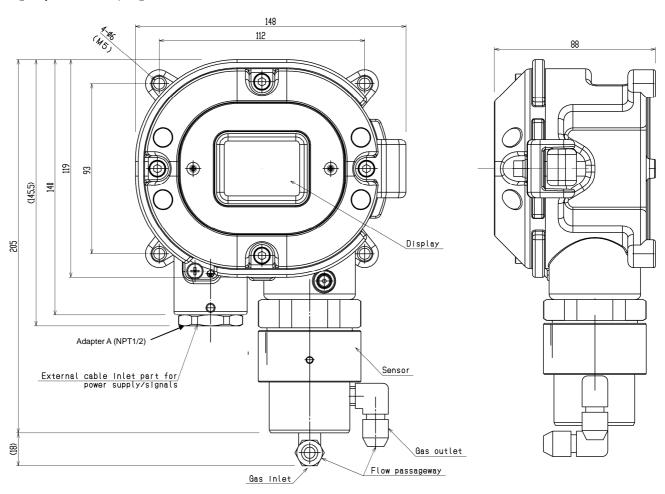
^{*1} Please specify your request when ordering.

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

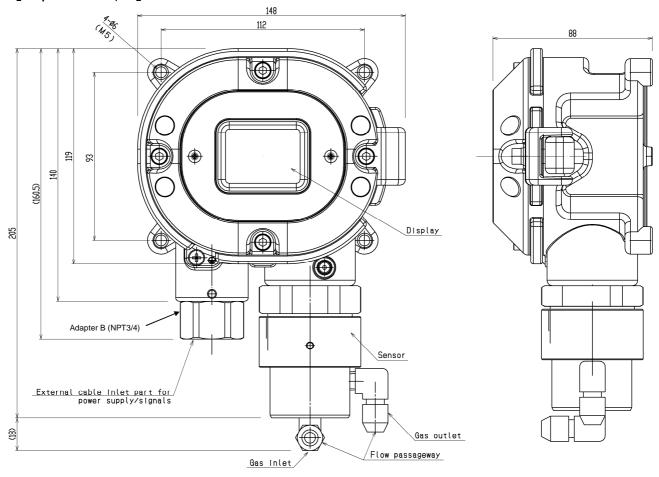
Outline Drawings [Cable gland<G3/4>]



[Adapter A<NPT1/2>]



[Adapter B<NPT3/4>]



Terminal Drawings

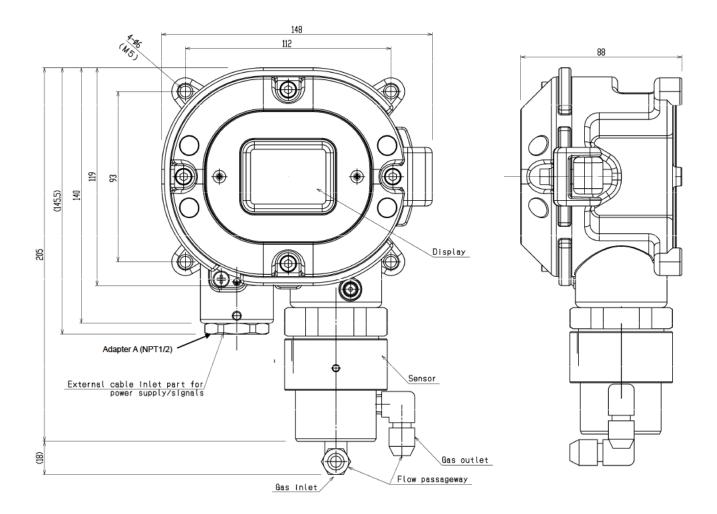
DC24V	DC+	1
	—(common)	2
4-20mA	Sig+	3
	Alarm contact	4
	Alarm contact	5

GAS DETECTOR WITH SIGNAL CONVERTER SD-1DOX (ATEX-IECEx/Leak alarm) SPECIFICATION

Mode I	SD-1D0X
Detection principle	Galvanic cell method
Detectable gas	02
Gas concentration display	LED(4digits • 7segments)
Measuring range	0~50vo1%
Detection method	Suction method(pour into by external unit)
Suction flow	1. 5±0. 5L/min
Alarm preset point*1	25vol%(H) [Standard]
Power indication	POWER lamp lighting (green)
Output*1	Gas concentration signal
	Alarm contact (Gas alarm or Trouble alarm or Gas • Trouble common alarm)
Alarm accuracy	Within ±5vol% to leak alarm(Alarm setpoint value: 25vol%)
(under an identical condition)	
Alarm-delay time	By leak alarm(Alarm setpoint value: 25vol%), Within 30sec after providing
(under an identical condition)	the gas 1.6 times(without piping delay time)
Gas alarm type	Single alarm(H)
Gas alarm indication	ALM lamp lighting(red)
Gas alarm action	Auto-recover
Trouble alarm • Self diagnosis	System failure/Sensor failure
Trouble alarm indication	FAULT lamp lighting(yellow)/content display
Trouble alarm action	Auto-recover
Alarm contact*1	No-voltage contact 1a • Non-exciting at normal(exciting at alarm) or
	exciting at normal(non-exciting at alarm)
Contact capacity	AC250V • 0.5A/DC30V • 0.5A (resistive load)
Transmission scheme	Three-wire analog transmission
	(in common with power supply <power common="" signal,="" supply,="">)</power>
Specification of	DC4~20mA
transmission	(linear \cdot load resistance less than 300Ω)
Transmission cable	CVVS worth of shield cable(1.25mm ² or 2.0mm ²) • 3-core
	(by not using alarm contact)
	CVVS worth of shield cable(1.25mm ² or 2.0mm ²) • 5-core
T	(by using alarm contact)
Transmission distance	Less than 1.25km
Power supply	DC24V±10%
Power consumption	MAX. 1. 1W
Cabling port*1	Pressure proof packing gland $\langle G3/4 \rangle$ (Compatible cables ϕ 9.6 \sim 10.5mm in outer diameter and rubber seals
	(Compatible caples ϕ 9.6~10.5mm in outer diameter and rubber seals ϕ 11mm in inner diameter (mounted))
	(Compatible cables ϕ 11.5~12.5mm in outer diameter and rubber seals
	ϕ 13mm in inner diameter (accessory)
	or Adapter A <npt1 2=""> , Adapter B<npt3 4=""></npt3></npt1>
Piping port	Rc1/8 (with PP elbow union for $0.0 \phi 6-1t$ PTFE pipe)
Initial clear	Approx. 25sec
Operating temperature	-10~+40°C (non-rapidly-vary)
Operating humidity	Less than 95%RH(non-condensing)
Structure	Wall mounting type
Explosion-proof structure	Flame proof structure
Explosion-proof grade	II 2G Ex db II C T6 Gb(ATEX) / Ex db II C T6 Gb(IECEx)
Outer dimension	Approx. 148 (W) \times 205 (H) \times 88 (D) mm (projection excluding)
Weight	Approx. 2. 9kg
Color	Munsell 7.5BG5/2

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

Outline Drawings



Terminal Drawings

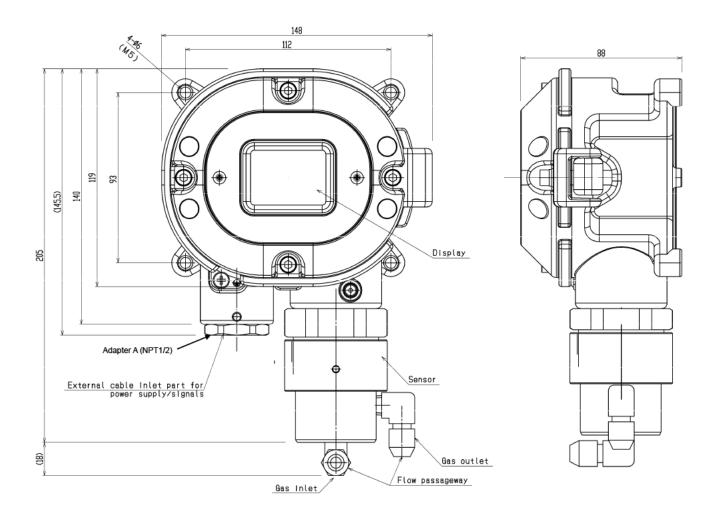
DC24V 4-20mA	DC+	1
	—(common)	2
	Sig+	3
	Alarm contact	4
	Alarm contact	5

GAS DETECTOR WITH SIGNAL CONVERTER SD-1DOX (ATEX-IECEx/Gas monitoring) SPECIFICATION

Mode I	SD-1DOX
Detection principle	Galvanic cell method
Detectable gas	02
Gas concentration display	LED(4digits • 7segments)
Measuring range	0~5vol%/0~10vol%/0~25vol%/0~50vol%/0~100vol%
Detection method	Suction method(pour into by external unit)
Suction flow	1.5±0.5L/min
Alarm preset point*1	Depend on measuring range
Power indication	POWER lamp lighting(green)
Output*1	Gas concentration signal
	Alarm contact(Gas alarm or Trouble alarm or Gas • Trouble common alarm)
Indicate accuracy	Within ±0.7vol%(below 25vol% range)
(under an identical condition)	Within ±3vol%(above 25vol% range)
Response time	Within 30sec(T90)(without piping delay time)
(under an identical condition)	(Cincular allows (II and I)
Gas alarm type*1	Single alarm(H or L)
Gas alarm indication	ALM lamp lighting (red)
Gas alarm action	Auto-recover
Trouble alarm • Self diagnosis	System failure/Sensor failure
Trouble alarm indication	FAULT lamp lighting(yellow)/content display Auto-recover
Trouble alarm action Alarm contact*1	
Alarm contact	No-voltage contact 1a · Non-exciting at normal (exciting at alarm) or
Contact capacity	exciting at normal(non-exciting at alarm) AC250V • 0.5A/DC30V • 0.5A (resistive load)
Transmission scheme	Three-wire analog transmission
Transiii ssion scheile	(in common with power supply <pre>(in common with power supply<pre>(power supply</pre>, signal, common>)</pre>
Specification of	DC4~20mA(linear · load resistance less than 300Ω)
transmission	2011/1/(Titledi Toda Footocarioc Footocitati 600 12)
Transmission cable	CVVS worth of shield cable(1.25mm ² or 2.0mm ²) • 3-core
	(by not using alarm contact)
	CVVS worth of shield cable(1.25mm ² or 2.0mm ²) • 5-core
	(by using alarm contact)
Transmission distance	Less than 1.25km
Power supply	DC24V±10%
Power consumption	MAX. 1. 1W
Cabling port*1	Flame proof packing method
	(Cable gland $\langle G3/4 \rangle$ or Adapter A $\langle NPT1/2 \rangle$ or Adapter B $\langle NPT3/4 \rangle$)
Piping port	Rc1/8(with PP elbow union for 0.D ϕ 6-1t • PTFE pipe)
Initial clear	Approx. 25sec
Operating temperature	-10~+40°C (non-rapidly-vary)
Operating humidity	Less than 95%RH(non-condensing)
Structure	Wall mounting type
Explosion-proof structure	Flame proof structure
Explosion-proof grade	Π 2G Ex db ΠC T6 Gb (ATEX) / Ex db ΠC T6 Gb (IECEx)
Outer dimension	Approx. 148 (W) × 205 (H) × 88 (D) mm (projection excluding)
Weight	Approx. 2. 9kg
Color	Munsell 7.5BG5/2

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

Outline Drawings



Terminal Drawings

DC24V 4-20mA	DC+	1
	—(common)	2
	Sig+	3
	Alarm contact	4
	Alarm contact	5