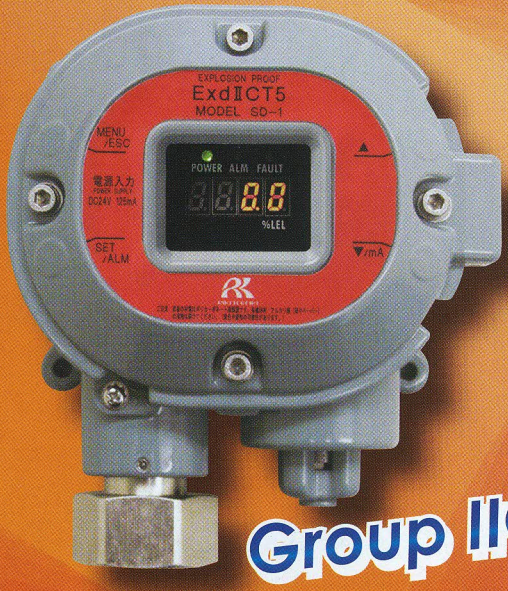
RIKEN KEIKI

SMART TRANSMITTER/GAS DETECTOR

Flameproof enclosure Exd II CT5

MADE IN JAPAN

MODEL SD-1



Group IIC Acetylene, Hydrogen



Features

- Explosion proof housing for Hydrogen
- 7 segments LED (4 digits)
- Signal converter
- Self diagnosis by microprocessor
- Electrical power saving (Maximum : 3W)

MS JAB CM007

KHK MANAGEMENT SYSTEM

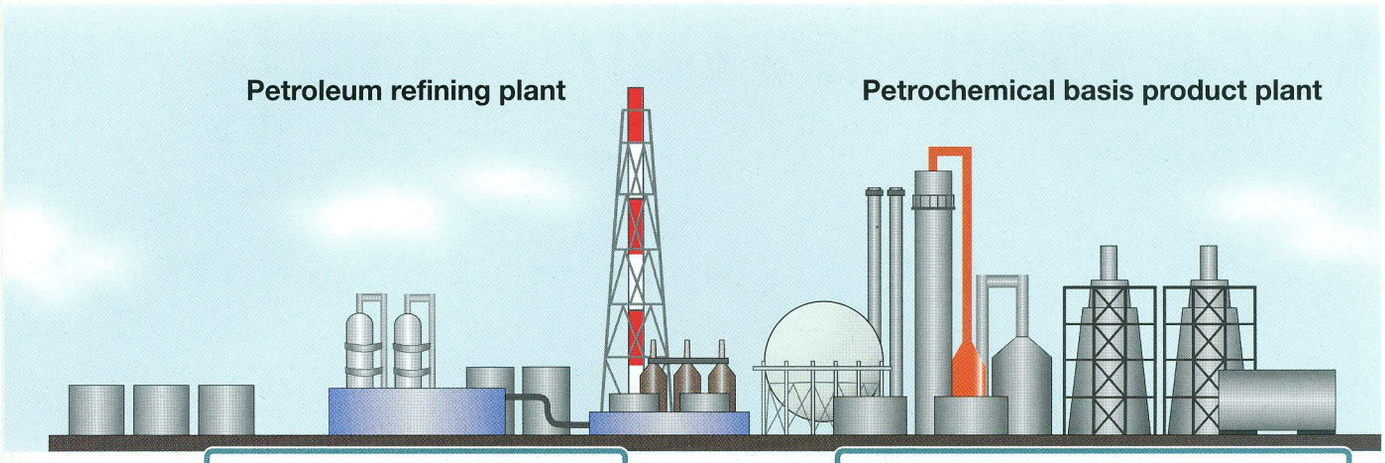
ISO 9001 95QR・007
ISO 14001 97ER・005

TOKYO PLANT・OKEGAWA MANUFACTURING DIVISION・HAKODATE FACTORY

RIKEN KEIKI

▷ SD-1 service space

Measuring gas : Combustible gas in the presence of Hydrogen/Acethylene



For petroleum processing at distillation column

For Naphtha cracking by apparatus for distilling cracked gas

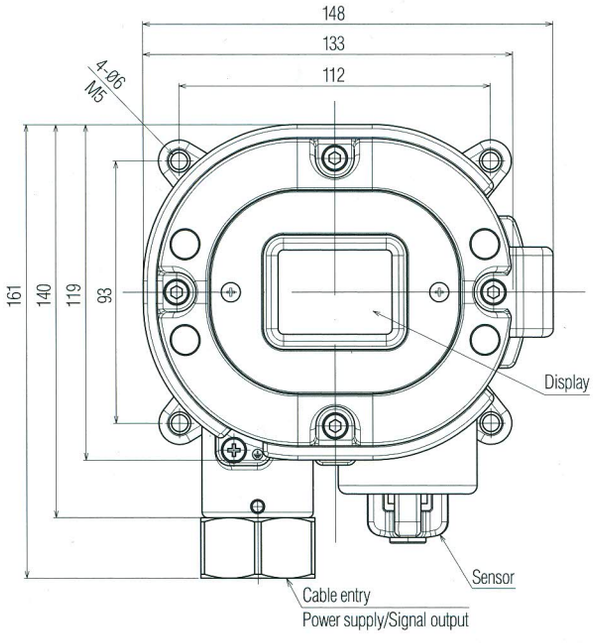
▷ SD-1 was certificated explosion proof of Hydrogen/Acethylene

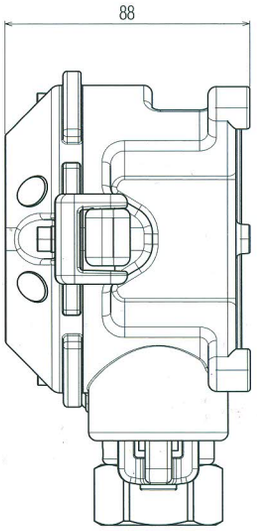
SD-1 can be installed at the situation that need explosion proof of Hydrogen/Acethylene.

SD-1 explosion proof **Ex d ⅡC T5**

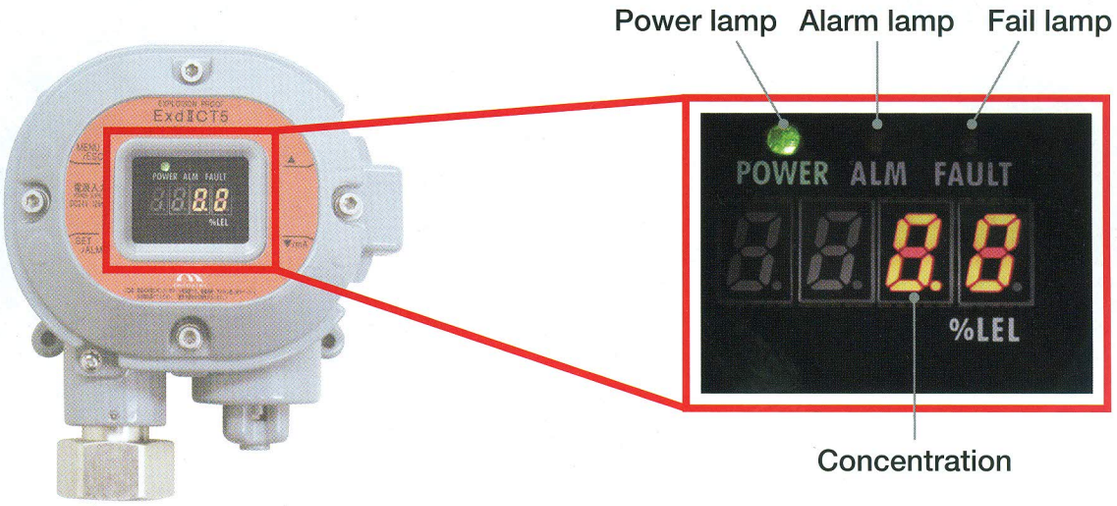
- Ex — Explosion-proof operating material
- d — Explosion proof enclosure
- ⅡC — Explosion group Ⅱ, Gas group C
- T5 — Temperature class : Highest permissible surface temperature 85℃ < T5 < 100℃

▷ Outer Dimensions





DISPLAY



SPECIFICATION

Detection principle	Catalytic combustion
Measuring gas	Combustible gases (CH_4, i-C_4H_{10} or general combustible gas) (Please specify the gas when ordering)
Measuring range (Increments)	0-100%LEL (0.1%LEL/digit)
Preset alarms	Quarter of F.S. (Standard)
Display	7-seg digital LED with backlight
Sampling method	Diffusion sampling
Alarm delay time	Approx 30 seconds when exposed to gas concentration of 1.6 times alarm level
Operating temperature & humidity	-20~+53℃, below 95%RH, non-condensing
Output	Gas concentration : 4-20mA (300Ω)
Alarm contacts	Gas alarm (Standard) or Trouble alarm (Option) : Normally open Contact rating : 30VDC 0.5A or 250VAC 0.5A (Resist rating)
Power source	24VDC (17VDC -26.4VDC)
Explosion proof	Exd Ⅱ CT5
Self diagnosis function	System failure, communication error, short, EEPROM error
	LED lamp (Yellow)
Applicable cable	CVVS 3-core (Power supply + 4-20 mA)
Signal transmission distance & cable	MAX 1.25km with CVVS 1.25sq cable, MAX 2.0km with CVVS 2.0sq cable
Consumed power	Approx 3 W (MAX)
Dimension & Weight	148 (W)×161 (H)×88 (D) mm, Approx. 2.0kg

Standard accessories

- Control lever
- Control key

Connection with indicator/alarm unit (Connection with RM-590 series)

RM-590 series



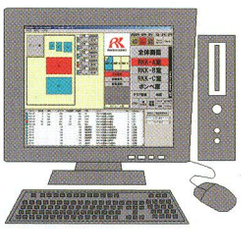
SD-1



CVVS 1.25sq, 3-core Max 1.25km
or
CVVS 2.0sq, 3-core Max 2.0km

Connection with Alarm monitoring system

Alarm monitoring system



SD-1



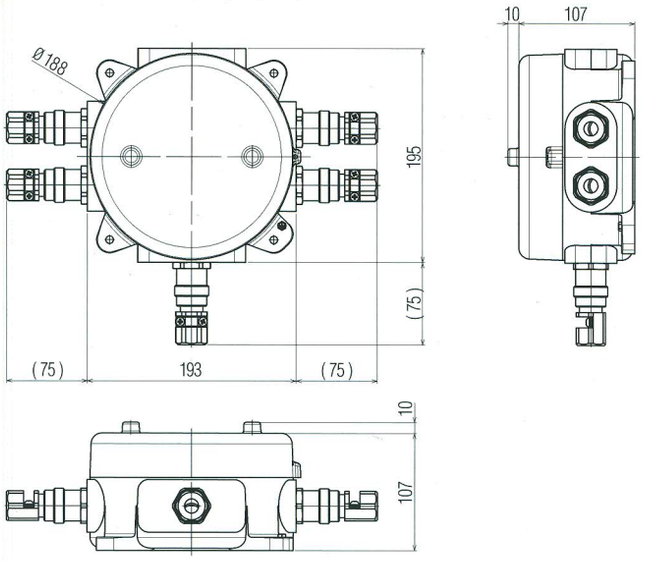
CVVS-2C

DC24V

CVVS-3C

Translator (Optional)

Outer Dimensions



SPECIFICATION

MODEL	JB-2
EXPLOSION PROOF	ExdⅡCT4
IP class	IP-65
Power source	AC100～240V ±10% 50/60Hz
Consumed power	MAX 17VA
Cable	10～12φ
Dimension	193(W)×195(H)×107(D)

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