JDA-500 Series

SMART – Anti-Explosive Gas Detector

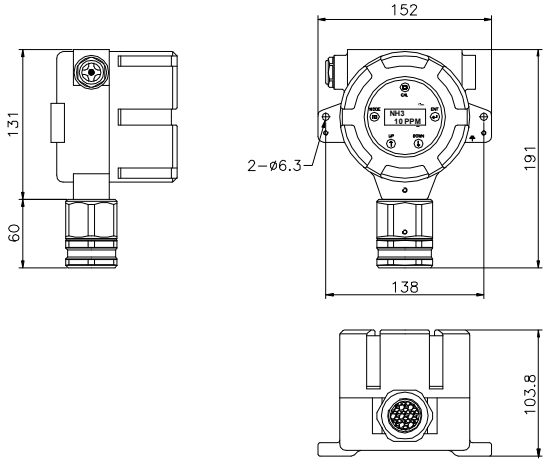
Specific Features

- **Digital Process**
  Wide range of artificial intelligence is embodied through the digital process based on micro processor and gas may be more conveniently, accurately, and efficiently detected.
- **Non-Intrusive Auto-Calibration With Magnetic Switch**
  The inconvenience to open the cover of detection part for calibration work by applying magnetic switch mechanism to automatic calibration function of digital processor. This function is especially effective in the calibration work in the anti-explosive area. (Zero, Span)
- **Self-Inspection**
  Trouble of the product is checked by inspecting surrounding ICs.
- **LCD Display With Back-Light**
  Detected level is displayed in LCD at real time for prompt identification of level and automatic back-light function is installed for easy identification of level even in the dark environment.
- **User Selection Menu**
  The user may configure the function suitable to using environment with choosing calibrated gas level and detection range with use of micro processor.
- **Signal-Output**
  The signals are smoothly transmitted by various output methods including sm2wire loop powered, 2-Step Relay Contact (Option), and RS-485 (Option).

Specification

Item	JDA-500 Series
Detection Mechanism	Catalyst Combustion, Electro-Chemical NDIR(Non-Dispersive Infrared),PID(Photoionization)
Detection Type	Diffusion
	0 ~ 100%LEL, 0~10000PPM,0~100%VOL
Response Rate	Within 20 sec, 90%/Full Scale
Accuracy	≤±2%/Full Sccale
Level Display	Back Light LCD(8Characters*2Line)
Sensor Calibration	Magnetic Switch
Selection Function	Setting calibration level and detection range
Input Power	DC 20 ~ 30V
Outside Output	4 ~ 20mA/Full Scale - 2.5km transmission
Operation Temperature and Humidity	-20℃~60℃, 5~95% RH (Non-Condensing)
Signal Cable	CVVS & CVVSB 1.25sq x 3 Wire - Shield Type
Cable Conduit	1/2" or 3/4" PF, NPT
Installation Method	Wall or Pipe Station
Outer Material	Cast Aluminum Alloy
Anti-Explosion Certificate	Ex d IIC T5 – Testing Laboratory (KTL)
Output Option	2-Step Relay Contact (High/Low), RS-485

Dimension



JDA-500 Toxic Target Gas

氣體名稱	化學名稱	測量範圍	型號
Acetaldehyde	CH_3CHO	0~500 ppm	JDA-500-CH_3CHO
Ammonia	NH_3	0~100 ppm	JDA-500-NH_3
Arsine	AsH_3	0~1.00 ppm	JDA-500-AsH_3
Arsenic Trichloride	$AsCl_3$	0~1.00 ppm	JDA-500-$AsCl_3$
Arsenic Trifluoride	AsF_3	0~10.0 ppm	JDA-500-AsF_3
Arsenic Pentafluoride	AsF_5	0~10.0 ppm	JDA-500-AsF_5
Boron Trichloride	BCl_3	0~15.0 ppm	JDA-500-BCl_3
Boron Tribromine	BBr_3	0~15.0 ppm	JDA-500-BBr_3
Boron Trifluoride	BF_3	0~10.0 ppm	JDA-500-BF_3
Butanethiol	C_4H_9SH	0~10.0 ppm	JDA-500-C_4H_9SH
Carbonyl Fluoride	COF_2	0~10.0 ppm	JDA-500-COF_2
Carbon Dioxide	CO_2	0~5000 ppm	JDA-500-LCO_2
Carbon Dioxide	CO_2	0~5.00 %	JDA-500-MCO_2
Carbon Dioxide	CO_2	0~100 %	JDA-500-HCO_2
Carbon Monoxide	CO	0~500 ppm	JDA-500-CO
Carbon Tetrachloride	CCl_4	0~30.0 ppm	JDA-500-CCl_4
Chlorine	Cl_2	0~10.0 ppm	JDA-500-Cl_2
Chlorine Dioxide	CLO_2	0~2.00 ppm	JDA-500-CLO_2
Chlorine Trifluoride	CLF_3	0~2.00 ppm	JDA-500-CLF_3
Diborane	B_2H_6	0~1.00 ppm	JDA-500-B_2H_6
Dichlorosilane	SiH_4Cl_2	0~10.0 ppm	JDA-500-SiH_4Cl_2
Disulfur Decafluoride	S_2F_{10}	0~10.0 ppm	JDA-500-S_2F_{10}
Disulfur Dichloride	S_2Cl_2	0~10.0 ppm	JDA-500-S_2Cl_2
Flourine	F_2	0~10.0 ppm	JDA-500-F_2
Formic Acid	HCOOH	0~500 ppm	JDA-500-HCOOH
Germane	GeH_4	0~1.00 ppm	JDA-500-GeH_4
Germanium Chloride	$GeCl_4$	0~10.0 ppm	JDA-500-$GeCl_4$
Hydrazine	N_2H_4	0~10.0 ppm	JDA-500-N_2H_4
Hydrogen	H_2	0~2000 ppm	JDA-500-H_2
Hydrogen Bromide	HBr	0~10.0 ppm	JDA-500-HBr
Hydrogen Chloride	HCl	0~10.0 ppm	JDA-500-HCl
Hydrogen Cyanide	HCN	0~50.0 ppm	JDA-500-HCN
Hydrogen Fluoride	HF	0~10.0 ppm	JDA-500-HF
Hydrogen Sulfide	H_2S	0~100 ppm	JDA-500-H_2S
Iodine[2]	I_2	0~10.0 ppm	JDA-500-I_2
Isopropanol[2]	$(CH_3)_2$ CHOH	0~500 ppm	JDA-500-$(CH_3)_2$ CHOH
Methanol[2]	CH_3OH	0~500 ppm	JDA-500-CH_3OH
Nitric Oxide	NO	0~100 ppm	JDA-500-NO

Nitrogen Dioxide	No_2	0~20.0 ppm	JDA-500-No_2
Nitrogen Trifuoride	NF_3	0~30.0 ppm	JDA-500-NF_3
Oxygen	O_2	0~30 % vol	JDA-500-O_2
Ozone	O_3	0~1.00 ppm	JDA-500-O_3
Phosgene	$COCl_2$	0~5.00 ppm	JDA-500-$COCl_2$
Phosphine	PH_3	0~1.00 ppm	JDA-500-PH_3
Phosphorus Trichloride	PCl_3	0~15.0 ppm	JDA-500-PCl_3
Phosphorous	PCl_5	0~15.0 ppm	JDA-500-PCl_5
Phosphoryl Chloride	$POCl_3$	0~10.0 ppm	JDA-500-$POCl_3$
Silane	SiH_4	0~20.0 ppm	JDA-500-SiH_4
Silicon Tetrachloride	$SiCl_4$	0~10.0 ppm	JDA-500-$SiCl_4$
Stibin[2]	SbH_3	0~1.00 ppm	JDA-500-SbH_3
Sulfur Dioxide	SO_2	0~20.0 ppm	JDA-500-SO_2
Sulfuryl Fluoride[2]	SO_2F_2	0~10.0 ppm	JDA-500-SO_2F_2
Sulfur Tetrafluoride	SF_4	0~9.00 ppm	JDA-500-SF_4
Trichlorosilane	$SiHCl_3$	0~15.0 ppm	JDA-500-$SiHCl_3$
Thiophene	C_4H_4S	0~50.0 ppm	JDA-500-C_4H_4S
Tin Tetrabromide	$SnBr_4$	0~10.0 ppm	JDA-500-$SnBr_4$
Tin Tetrachloride	$SnCl_4$	0~30.0 ppm	JDA-500-$SnCl_4$
Tin Tetrafluoride	SnF_4	0~10.0 ppm	JDA-500-SnF_4
Titanium Tetrachloride	$TiCl_4$	0~10.0 ppm	JDA-500-$TiCl_4$
Trichlorosilane	$SiHCl_3$	0~10.0 ppm	JDA-500-$SiHCl_3$
Trichlortriazine	$C_3Cl_3N_3$	0~10.0 ppm	JDA-500-$C_3Cl_3N_3$
Trifluorotriazine	$C_3F_3N_3$	0~10.0 ppm	JDA-500-$C_3F_3N_3$
Vinyl Chloride	CH_2	0~10.0 ppm	JDA-500-CH_2
Oxyzen+Carbon Monoxide	O_2+CO	0~30%, 0~1000 ppm	JDA-500-O_2+CO