

MONITORING AND ALARMING DEVICE

ESD3000IR Infrared Gas Detector

Introduction •Infrared Gas Detector in industrial application •Ex-proof certificate Exd IIC T6 Gb •Dust Ex-proof certificate Ex tD A21 IP66 T80°C •Site LCD display •HART communication •Changeable sensor d...

ISO9001 Supplier

Class Certificate

Export Supply



Key Highlights

Category	Monitoring And Alarming Device
Standard	ISO
Material	ESD3000IR 1 Display LCD 12 Screw connection M20X1.5, 1/2NPT internal thr...
Weight / Size	ESD3000IR 1 Display LCD 12 Screw connection M20X1.5, 1/2NPT internal thr...
Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

Technical Specifications			
Category	Monitoring And Alarming Device	Model / SKU	ESD3000IR-Infrared-Gas-Detector
Standard	ISO	Material	ESD3000IR 1 Display LCD 12 Screw connection M20X1.5, 1/2NPT internal thread (select G3/4 or G1/2 or 3/4NPT) 2 Detected gases combustible gas/CO2 13 Weight 2.17kg (aluminum alloy)/4.1kg (stainless steel) 3 Detecting principle Infrared Spectroscopy 4 Measurement Range 0 ~ 100%LEL (combustible gas)/0 ~ 5%v/v (CO2) 14 Explosion proof certificate Exd IIC T6 Gb/Ex t D A21 IP66 T80°C 5 Accuracy ±3%LEL (combustible gas)/±3%FS (CO2) 15 Fire safety certificate CCCF 6 Repeatability ±2% 16 China metrology certification CMC 7 Response time T90 < 20S 17 Standard GB 15322.1-2003, GB 3836.1-2010, GB 3836.2-2010, GB 3836.4-2010, GB 12476.1-2013, GB 12476.4-2010 , GB 12476.5-2013, JJF 1368-2012 8 Power supply 24VDC (normal work voltage scope : 10 ~ 30VDC) 9 Power consumption < 2.5W 18 IP rating IP66 10 Output signal 3-wire 4~20mA+HART+relay (1A@24VDC)+audial & visual alarm (96dB @0.1m) 19 Temperature scope -40°C ~ 70°C 11 Main material ADC12 aluminum alloy/316 stainless steel 20 Humidity scope 10 ~ 95%RH(non-condensing) 21 Atmospheric pressure 86 ~ 106KPa Flammable Gases Detectable by ESD3000IR Description No.

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Warranty	12 Months unless specified otherwise	Origin	China

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Introduction

- Infrared Gas Detector in industrial application
- Ex-proof certificate Exd IIC T6 Gb
- Dust Ex-proof certificate Ex tD A21 IP66 T80°C
- Site LCD display
- HART communication
- Changeable sensor design
- Optional in audial and visual alarm with relay output

Specifications

No.	Items	ESD3000IR	No.	Items	ESD3000IR
1	Display	LCD	12	Screw connection	M20X1.5, 1/2NPT internal thread (select G3/4 or G1/2 or 3/4NPT)
2	Detected gases	combustible gas/CO ₂	13	Weight	2.17kg (aluminum alloy)/4.1kg (stainless steel)
3	Detecting principle	Infrared Spectroscopy			
4	Measurement Range	0 ~ 100%LEL (combustible gas)/0 ~ 5%v/v (CO ₂)	14	Explosion proof certificate	Exd IIC T6 Gb/Ex tD A21 IP66 T80°C
5	Accuracy	±3%LEL (combustible gas)/±3%FS (CO ₂)	15	Fire safety certificate	CCCF
6	Repeatability	±2%	16	China metrology certification	CMC
7	Response time	T90 < 20S	17	Standard	GB 15322.1-2003, GB 3836.1-2010, GB 3836.2-2010, GB 3836.4-2010, GB 12476.1-2013, GB 12476.4-2010 , GB 12476.5-2013, JJF 1368-2012
8	Power supply	24VDC (normal work voltage scope : 10 ~ 30VDC)			
9	Power consumption	< 2.5W	18	IP rating	IP66

10	Output signal	3-wire 4~20mA+HART+relay (1A@24VDC)+audial & visual alarm (96dB @ 0.1m)	19	Temperature scope	-40°C ~ 70°C
11	Main material	ADC12 aluminum alloy/316 stainless steel	20	Humidity scope	10 ~ 95%RH(non-condensing)
			21	Atmospheric pressure	86 ~ 106KPa

Flammable Gases Detectable by ESD3000IR

No.	Description	Formula	No.	Description	Formula
K001	Methane	CH ₄	K022	Pentane	C ₅ H ₁₂
K002	Methylbenzene	C ₆ H ₅ CH ₃	K023	Hexane	CH ₃ (CH ₂) ₄ CH ₃
K003	Methanol	CH ₃ OH	K024	Heptane	C ₇ H ₁₆
K004	Methyl formate	HCOOCH ₃	K025	Octane	CH ₃ (CH ₂) ₃ CH ₃
K005	Ethyl formate	HCOOCH ₂ CH ₃	K026	Nonane	CH ₃ (CH ₂) ₇ CH ₃
K006	Ethyl methyl ether	CH ₃ OCH ₂ CH ₃	K027	Carbon monoxide	CO
K007	Ethane	CH ₃ CH ₃	K028	Ammonia	NH ₃
K008	Ethyne	CH≡CH	K029	Hydrogen	H ₂
K009	Ethanol	CH ₃ CH ₂ OH	K030	Benzene	C ₆ H ₆
K010	Ethylbenzene	CH ₃ CH ₂ C ₆ H ₅	K031	Iso-butane	(CH ₃) ₂ CHCH ₃
K011	Ethylene	CH ₂ =CH ₂	K032	Isopropanol	(CH ₃) ₂ CHOH
K012	Methyl acetate	CH ₃ COOCH ₃	K033	1-Butanol	CH ₃ (CH ₂) ₂ CH ₂ OH
K013	Ethyl acetate	CH ₃ COOCH ₂ CH ₃	K034	Cyclohexane	CH ₂ (CH ₂) ₄ CH ₂

K014	N-butyl acetate	$\text{CH}_3\text{COOCH}_2(\text{CH}_2)_2\text{CH}_3$	K035	Cyclopentane	$\text{CH}_2(\text{CH}_2)_3\text{CH}_2$
K015	Propane	$\text{CH}_3\text{CH}_2\text{CH}_3$	K036	Epoxypropane	$\text{CH}_3\text{CHCH}_2\text{O}$
K016	Propanol	$\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$	K037	Ethylene oxide	$\text{CH}_2\text{CH}_2\text{O}$
K017	Propylene	$\text{CH}_2=\text{CHCH}_3$	K038	Diethyl ether	$(\text{CH}_3\text{CH}_2)_2\text{O}$
K018	Acetone	$(\text{CH}_3)_2\text{CO}$	K039	Dimethyl ether	$(\text{CH}_3)_2\text{O}$
K019	Butane	C_4H_{10}	K040	Xylene	$\text{C}_6\text{H}_4(\text{CH}_3)_2$
K020	Butanone	$\text{CH}_3\text{CH}_2\text{COCH}_3$	K041	Gasoline	$\text{C}_4\sim\text{C}_{12}\text{hydrocarbon mixture}$
K021	Butadiene	$\text{CH}_3\text{CH}_2\text{COCH}_3$	K042	Jet fuel, kerosene	$\text{C}_9\sim\text{C}_{16}\text{hydrocarbon mixture}$