



EK Engineering

Hydrogen Flame detector (UV / IR)

for hydroge fire, explosion detection



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Hydrogen Flame Detector (UV / IR)

Model: RFD2X-H2



RFD2X is state-of-art, robust and accurate flame detecting instrument for detection of fire out of hydrogen explosion. The transmitter is designed to detection ultraviolet infra-red spectrum of energy emitted from flame or fire. This property make it contact-less, thus ideal to install in any non-explosion (non-hazardous) or hazardous area (Zone 1,Zone 2)

Flame detector use principle of detection of spectral wavelength of UL (Ultraviolet) or IR (Infra-red) or similiar electro-magnetic radiations emitted from fire.

RFD2X-H2 is explosion-proof (Flame proof) approved hydrogen flame detector with ATEX and FM approval for Zone 1, Zone 2 area installation. RFD2X is highly efficient sensor for fire detection, using UV/IR sensor ie. detects fire incidence using ultra-violet and infra-red, thus accurate detection, less false alarm, higher reliability.

It can be easily integrated with analog or digital system controller / BMS / SCADA system, with its standard analog signals, digital output and digital RS485 signals. With its unique feature, it provides fault and warning signals, in case of abnormal operation. tive diaphragm.



Fig: Hydrogen flame detector - RFD2X-H2





Technical Specifications:

Measuring parameters:	Hydrogen flame
Detection technology:	Ultra-violet / Infra-red (UV / IR)
Detection range:	30 meters (100 ft)
Field of view:	Horizontal: 90 deg
Operating temperature:	Vertical: 90 deg
Operating humidity:	-40 ~ +75 deg cel
Power supply:	0 ~ 95% Rh
Power consumption:	24V DC (17 ~ 32 V)
Interface:	1.8 VA max @ 32 VDC
Ingress protection:	Analog / Digital Interface
Housing Material:	IP67
Mounting	SUS 316
Signal / Output:	Wall / Surface / Ceiling mounting
	134 (W) x 117 (H) x 120 (D) mm
	Relay: 28 V DC @ 2A rated
	Fire, Fault, Warning
	(From A or B Selectable)
	4-20mA: Fault, Normal, IR Detection, UV Detection
	warning, alarm
	RS485: proprietary communication
	2.4kg
Certification / Approvals:	FM US Approved for Explosion / hazardous area
	FM 3260
	ATEX approved
	Class II B + H2 T6
	1 year on material against bad workmanship
	(exclusive sensor cell)

