

INSTRUMENT SPECIFICATION SHEET - FLAME DETECTORS

Project:				Page	Of	
Date	By	Description / Number	Revision / Check'd	Spec Number:	Rev:	
			/	Contract:	Date:	
			/	Req:	P.O.:	
			/	By:	Checked: Approved:	
General Data	1	Instrument Tag Number	/	/	/	
	2	Service / Location				
	3	P & ID Number				
	4	Material Source				
	5	Requisition Number				
	6	Item Number				
	7	Manufacturer	Rosemount	Rosemount	Rosemount	
	8	Model Number	975HR	975HR	975HR	
Process Data	9	Ambient Air Surveillance	Yes	Yes	Yes	
	10	Flame Type To Be Detected	Hydrocarbon fires, Hydrogen fires	Hydrocarbon fires, Hydrogen fires	Hydrocarbon fires, Hydrogen fires	
	11	Contamination Gases	None	None	None	
Sensor Data	12	Number of Sensors / Part Number	4 /	4 /	4 /	
	13	Sensing Element (Type)	Pyroelectric: Multi Infrared	Pyroelectric: Multi Infrared	Pyroelectric: Multi Infrared	
	15	Sensor Material (Al or SS)	SS	SS	SS	
	16	Detection Range	65 m (215 ft)	65 m (215 ft)	65 m (215 ft)	
	17	Field of View	Horizontal 67°, Vertical 70° for Gasoline Horizontal 80°, Vertical 80° for Hydrogen	Horizontal 67°, Vertical 70° for Gasoline Horizontal 80°, Vertical 80° for Hydrogen	Horizontal 67°, Vertical 70° for Gasoline Horizontal 80°, Vertical 80° for Hydrogen	
	18	Enclosure Rating	Type 4X, IP66/67	Type 4X, IP66/67	Type 4X, IP66/67	
	19	Conduit Connection Size (NPTF)	3/4" NPT, M25, M20	3/4" NPT, M25, M20	3/4" NPT, M25, M20	
	20	RFI Susceptibility Tested	Yes	Yes	Yes	
	21	Operational Temperature Range	-55°C to +75°C (-67°F to +167°F)	-55°C to +75°C (-67°F to +167°F)	-55°C to +75°C (-67°F to +167°F)	
	22	Humidity Range	95 % non-condensing	95 % non-condensing	95 % non-condensing	
	23	Response Time	Typically 5 sec	Typically 5 sec	Typically 5 sec	
	24	Visual Integrity	Yes (Automatic and Manual)	Yes (Automatic and Manual)	Yes (Automatic and Manual)	
	25	End to End Test	Yes (Flame Simulator)	Yes (Flame Simulator)	Yes (Flame Simulator)	
	Transmitter Data	26	Signal Cable Length (Max In Feet)	Vendor to advise	Vendor to advise	Vendor to advise
		27	Signal Amplifier	No	No	No
28		Local Indication	LED	LED	LED	
29		Type of Mounting	Wall, Pole, or Duct Mount	Wall, Pole, or Duct Mount	Wall, Pole, or Duct Mount	
30		Housing Material (SS)	316 SS	316 SS	316 SS	
31		NEC Classification	Class I Div.1, Groups B, C & D Class II/III Div.1, Groups E, F & G	Class I Div.1, Groups B, C & D Class II/III Div.1, Groups E, F & G	Class I Div.1, Groups B, C & D Class II/III Div.1, Groups E, F & G	
32		Input Power	24 VDC @ 0.9 A	24 VDC @ 0.9 A	24 VDC @ 0.9 A	
33		Output Signal Range	0-20 mA	0-20 mA	0-20 mA	
34		Relay Contact Arrangement (No.)	SPST (2 or 3)	SPST (2 or 3)	SPST (2 or 3)	
35		Relay Contact Rating	2 A @ 30 VDC	2 A @ 30 VDC	2 A @ 30 VDC	
36		Low Alarm Setpoint (N.O. or N.C.)				
37		Low Alarm Actuates				
38		Latching Low Alarm (Y/N)				
39		High Alarm Setpoint (N.O. or N.C.)				
40		High Alarm Actuates				
41		Latching High Alarm (Y/N)				
Control Unit Data		42	Number of Channels			
	43	Meter Scale Range				
	44	Location				
	45	Type of Mounting				
	46	Operating Temp.				
	47	NEC Classification				
	48	Input Power				
	49	Output Signal Range				
	50	Relay Contact Arrangement (No.)				
	51	Relay Contact Rating				
	52	Low Alarm Setpoint (N.O. or N.C.)				
	53	Low Alarm Actuates				
	54	Latching Low Alarm (Y/N)				
	55	High Alarm Setpoint (N.O. or N.C.)				
	56	High Alarm Actuates				
	57	Latching High Alarm (Y/N)				
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