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	975UF	975UF	975UF
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	2 /	2 /	2 /
	13	Sensing Element (Type)	Pyroelectric: Ultraviolet and Infrared (UV: 0.185–0.260 µm; IR: 2.5–3.0 µm)	Pyroelectric: Ultraviolet and Infrared (UV: 0.185–0.260 µm; IR: 2.5–3.0 µm)	Pyroelectric: Ultraviolet and Infrared (UV: 0.185–0.260 µm; IR: 2.5–3.0 µm)
	15	Sensor Material (Al or SS)	AL, SS	AL, SS	AL, SS
	16	Detection Range	20 m (66 ft)	20 m (66 ft)	20 m (66 ft)
	17	Field of View	Horizontal 100˚; Vertical 95˚	Horizontal 100˚; Vertical 95˚	Horizontal 100˚; Vertical 95˚
	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 3 s. High speed 20 msec to flash fire	Typically 3 s. High speed 20 msec to flash fire	Typically 3 s. High speed 20 msec to flash fire
	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	316 SS, AL	316 SS, AL	316 SS, AL
	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)			
Options	58				
	59				
NOTES:	60				
	61				
	62				
	63				
	64				
	65				