Infrared Gas MonitorsGuardian Range

GUARDIAN FR

FOR REFRIGERANTS





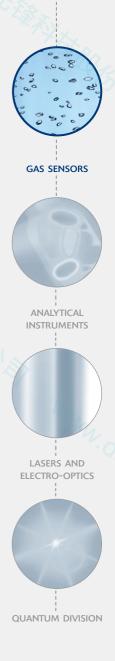
The Guardian range of infrared gas monitors offers near-analyser quality continuous sampling, measurement and display of target gas concentrations at an attractive price.

The 'Guardian FR' monitors provide high accuracy detection and measurement of R-125, R-134a, R-123, R-11, R-12 and R-22 refrigerant where detection levels between 0 –1000ppm by volume are required. (We can also custom-manufacture 'Guardian FR' instruments to measure certain other refrigerant gases - please contact us to discuss your specific requirements.)

Suitable for a wide variety of applications these wall-mounted monitors can detect gases from sampling points up to 30 metres away, using the integral sampling system.

The proven reputation of these instruments for reliability, accuracy and long-term stability with low maintenance requirements can be attributed to our proprietary dual-wavelength infrared sensor technology and over thirty years of sensor design and manufacturing experience.

Our Guardian instruments feature a four-digit LCD and alarm set-point controls housed in a tough plastic enclosure that has an IP54 rating against the ingress of particulates and water.







TECHNICAL SPECIFICATIONS

GUARDIAN FR



120	2			Repeatability	Repeatability
MODEL	Gas	Accuracy*	Stability	@ zero	@ span
Guardian FR 0-1000pp	refrigerants	+/- 3% of range	+/- 2% of range over 12 months	+/- 1%	+/- 2%
		/_	9		
RESPONSE TIME:	T ₉₀ = 30 seconds				
OPERATING TEMPERATURE:	· · · · · · · · · · · · · · · · · · ·				
WARM-UP TIME:	3 minutes (initial), 40 minutes (full specification)				
HUMIDITY:	Measurements are unaffected by 0-95% humidity, non-condensing				
CONTROLS FITTED:	Zero and span adjustment potentiometers				
	Setpoint 1	and setpoint 2 ad	djustment		
			v setpoint 2 button		
		ED and display te			
BITSWITCH PARAMETERS:	9		0 - 20mA or 4 - 20mA		
		non-linear output		10 - 1 - 1	
			n/low, alarm 2 high/low, alarm 1 no		
			ms or only on alarm 2 low flow wa	rning (flashing lam	ip) or low flow
VISUAL DISPLAY:		LCD display	lisplays 'ERR', flashing lamp, etc)		
VISUAL DISI EAT.		ED, alarm 2 LED			
	Fault LED	.ED, didiiii			
	Low flow	flow fail LED			
RELAY CONTACTS:	Volt-free changeover contacts				495
	Resistive load @ 24V DC = 8A				
· O/-	Resistive load @ 250V AC = 8A				
PUMP CHARACTERISTICS:	Typical flo	w rate = 1 litre/ m	inute		
- CO	Maximun	sampling distanc	e = 30 metres		
POWER REQUIREMENTS:	88V - 138V AC or 172V - 276V AC (switch selectable)				
POWER CONSUMPTION:	13 W (typical)				
WEIGHT:	2.5Kg				
DIMENSIONS:	267 x 25	8 x 148mm			
ENCLOSURE:	IP54 rated				
ELECTRICAL CONFORMITY:	CE marked				
	(*stated ac	curacy includes calib	ration gas tolerance of +/- 1%)		



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OTHER GUARDIAN MODELS AVAILABLE:		
Guardian SP:	Measurement of ppm level CO ₂ and N ₂ O; measurment of % level CO	
Guardian Plus:	Measurement of CO ₂ , CH ₄ (ranges from 0-1% to 0-100% by volume)	

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