

INFRARED FOUR GAS MONITOR

Gas Detection for Life

SAM IV Model



Features

- Monitor up to 11 locations
- Detects leaks early to limits as low as 1ppm
- Meets ASHRAE 15-1994 standards
- Factory calibrated
- Three adjustable alarm levels with relay closures
- Complete system self-diagnostics with malfunction relay closure
- Trouble free operation – minimal maintenance
- Customised to monitor any refrigerant, including ammonia, carbon monoxide, HCFC-123, HFC-134A, HCFC-22, CFC-11 or CFC-12
- Monitor combinations of refrigerants

Applications

- Chiller plant rooms
- Meatworks (cold rooms)
- Carparks and bottle storage areas (CO version)

SAM IV continuous refrigerant monitors use patented infrared technology to detect refrigerant gases as low as 1ppm. The SAM IV's unique optical design allows it to be compound-specific, which practically eliminates nuisance alarms from other compounds that may be present.

The SAM IV incorporates the monitor and sample manifold in one compact, watertight package. One instrument can monitor up to 11 sample points with optional expansion module packages.

Samples can be collected from distances of up to 500 ft. SAM IV monitors are less sensitive to vibration and temperature fluctuation than most units and can be mounted on the wall, rack or the refrigeration or HVAC equipment itself.

Three level alarms warn against refrigerant leaks. Standard outputs include 4-20 mA and a choice of RS-485 or RS-232. Optional Windows-based software is available for remote control of all parameters of the SAM IV monitors.



RIKEN KEIKI

Sensing technology	Patented infrared
Number of sample points	Four – expandable to eleven
Range	1 ppm – 1000 ppm
Standard calibration	100 – 1000 ppm \pm 5%
Optional calibration	100 – 1000 ppm \pm 2%
Lower limit of detection for most common refrigerants	1 ppm
Sensitivity	1 ppm
Linearity	Linear over entire range
Reproducibility	\pm 1 ppm over a 12 month period
Response time	90% of level change in 20 seconds
Alarm relays	3 relays at 5 amps resistance
Malfunction relay	5 amps resistive
Analog outputs	4-20mA for each point (up to four)
Digital communications	Choice of RS-485 or RS-232
Digital inputs	Choice of RS-485 or RS-232
Operating Temperature	0 – 40°C
Relative humidity	0-99%, non-condensing
Power requirements	85 – 250 VAC, 50/60 Hz
Power load	75 watts
Maximum sample tube length per point	500 ft
Sample tubing connections	1/4" O.D.
Sample flow rate	2 litres/minute
Dimensions	40.6 (H) x 34.3 (W) x 17.8 (D) cm
Weight	14.5 kg

AUSTGAS Instrument Services Pty Ltd

13 Greer St
Bonnyrigg Heights NSW 2177
AUSTRALIA

Phone: +61 2 9823 2551
Fax: +61 2 9822 9284
Mobile: +61 451 304 884
Email: austgas@hotmail.com