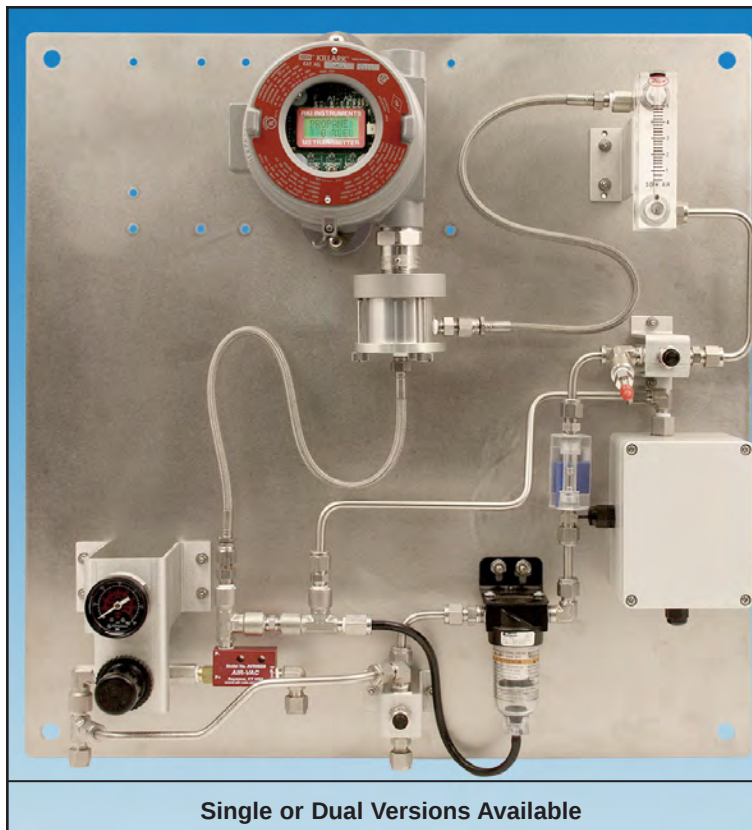




HARSH ENVIRONMENT SAMPLING SYSTEM

Gas Detection For Life

Single / Dual Sensor Air Aspirator



Single or Dual Versions Available

Features

- Simple to operate
- Long life air aspirator (no moving parts)
- Extreme sample temperatures
- One or two sensors
- Inside/outside location options
- Corrosion resistant construction for extreme environments / samples
- Uses proven RKI technology
- Modular design easy to maintain
- Self draining moisture trap
- Back flush for sample line
- NEMA 4X enclosure options (stainless steel or GRP)

Industry Applications

- Flammable, oxygen, or toxic monitoring
- Wastewater
- Drinking water plants
- Gas turbine monitoring flammable and CO
- Tunnel monitoring
- Landfill borehole analyses
- Printing press exhaust solvent recovery
- Winery CO₂ / O₂
- Biogas Methane
- Hydrogen Sulfide "H₂S" scrubber break through

Single or dual sensor system is designed to monitor gas atmospheres from extreme conditions with either temperature or pressure challenges. A powerful air aspirator can pull a sample from up to 100 feet away. The filtered and conditioned sample gas is then passed across one or two different detectors. Each detector shares a common calibration and compressed air inlet for aspirated flow. This system is fault tolerant removing the need for expensive downtimes and maintenance. The sample is diluted with air after gas sensor then returned to a common exhaust reducing the danger of potential hazardous gases entering a safe work space.

System integrity is maintained at all times using a flow fail monitoring device which provides an NO contact that activates if the sample line becomes blocked or damaged or if the air supply is removed or interrupted.

The panel can be used with direct-connect (sensors connected to an RKI controller), or with S, S2 Series, and M2A Series transmitters. All transmitters have a 4-20 mA signal for direct connection to the site DCS, PLC or site control system. If needed, RKI instruments can supply a dedicated Gas Detection Control system to provide local alarms, 4-20 mA output with a wide range of dry contacts, making the system very sophisticated and user friendly.

Integral sample filter included to remove water and dirt, automatic drain type.

RS485 Modbus output options available on the M2A transmitter.

Dual Point Sensor Air Aspirator

Gas sensors	One or two
Gas sensor options	H2 CH4, HC's 0-100%LEL, CO, CO2, H2S, and O2, other gases available contact RKI instruments
Sensor type	Catalytic, Electrochemical, IR
Maximum sample line length	100' (1/4" OD. tube)
Compressed air requirements	10 to 140 PSI compressed air or N2
Mounting panel	Stainless Steel 21" x 21"
Operating temperature	See detector head specification
System enclosure (optional)	GRP or Stainless Steel. IP65 NEMA 4
Sample flow across the detector head	3 SCFH (1.5 LPM)
Compressed air usage	Typical 6 SCFH (3 LPM)
Approvals	Sensors classified for Class I, group B, C , D
Display	M2A Transmitter local display
Outputs	Low flow contact, normally open (NO)
Purge / Calibration	Manual operated spring return valves for calibration and back purge of the filter / sample line.
Filtration	In line coalescing filter, automatic drain, 5 micron particulate, with transparent bowl
Warranty	1 Year

- Weatherproof enclosure for outside locations rainproof or as required for site secure installations.

Specifications subject to change without notice.

Made in the USA



Authorized Distributor:

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