



FEATURES

- Compact and integrated unit
- Dynamic flow rate control
- Isokinetic sampling flow rate control
- Network capability

PIS 205L

Particulate and/or Iodine Sampler

The PIS 205L forms part of the RAMSYS product line. It has been developed to continuously sample draw of particulate and iodine, in both molecular and organic forms (methyl iodine), in air from effluent stacks, ventilation ducts and/or working areas, in a mild environment.

This version is specially adapted for stack or duct when an isokinetic sampling is required. The radioactive particulate trapped on designated paper filter can be submitted to laboratory analysis specific tests as: qualitative analysis (spectrographic or chemical) to identify the isotopes, quantitative analysis using reflectometer, measurement of particulate radioactivity.

APPLICATIONS

- Effluent release monitoring

RELATED MONITORS

- PIS 203S: post-accident version
- PIS 204L: version without dynamic flow rate control

radiation monitoring
systems

A Mirion Technologies Division

Featuring:



PHYSICAL CHARACTERISTICS

- Particulate:
 - Filter type: FSLW or equivalent Ø 47 to 57 mm (1.8 to 2.2 in)
 - Efficiency: > 99%
- Iodine:
 - Cartridge type: silver zeolite or active charcoal
 - Efficiency: > 99% for methyl iodine (HR 60%)
- Filter/cartridge change frequency: one per week if continuous trapping

ENVIRONMENTAL CHARACTERISTICS

- Long term temperature:
 - +10°C to +40°C (+50°F to +104°F)
- Maximum periodic ambient temperature:
 - +0°C to +45°C (+32°F to +113°F)
- Storage temperature:
 - During 96 hours: -25°C to +85°C (-13°F to +185°F)
- Pressure: 860 to 1060 hPa
- MTBF: > 20 000 hours, with preventive maintenance
- Protection index: IP32

PNEUMATIC CHARACTERISTICS

- Nominal flow rate:
 - By default: 35 l/min (1.25 scfm)
 - Minimum: 10 l/min (0.36 scfm)
 - Maximum: 50 l/min (1.79 scfm)

MECHANICAL CHARACTERISTICS

- Dimensions: 895 mm x 435 mm x 370 mm (35,3 in x 17.1 in x 14.5 in)
- Weight: ~ 35 kg (~ 77 lb)
- Color: gray RAL 7030 (decontaminable paint)

ELECTRICAL CHARACTERISTICS

- Power supply: 230 Vac - 50 Hz
- Data link outputs: 1 RS232 on DB9 connector on front panel and 2 isolated RS485 via cable glands
- Alarm relays: 3 DPDT relays
- I/O: 1 isolated analog output and 1 isolated analog input (0/4-20 mA)

SIGNALING

- Alphanumeric display: measurement, status...
- Sound alarm: buzzer 90 dBA at 1 meter
- Visual alarm: 1 light (red)

REFERENCE STANDARDS

- EMC: 2006/95/CE and 2004/108/CE, IEC61000-6-2 and IEC61000-6-4

ACCESSORIES

- Maintenance and set-up software (MASS2)
- Wall installation
- FSLW filter or equivalent
- Zeolite cartridge or charcoal cartridge
- Material to adapt to each sheath:
 - Flow rate control
 - Isokinetic sampling



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