



FEATURES

- Compact and integrated unit
- Manual flow rate control
- Network capability

PIS 204L Particulate and/or Iodine Sampler

The PIS 204L 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.

The nominal flow rate for this sampler is adjusted via a manual valve without automatic control. 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 205L: version with 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: 930 mm x 435 mm x 370 mm (36.6 in x 17.1 in x 14.5 in)
- Weight: ~ 15 kg (~ 33.6 lb)
- Color: gray RAL 7030 (decontaminable paint)

ELECTRICAL CHARACTERISTICS

- Power supply: 230 Vac - 50 Hz or 120 Vac - 60 Hz
- Data link outputs: 1 RS232 on DB9 connector on front panel and 2 isolated RS485 via cable glands
- Alarm relays: 3 DPDT relays

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

VERSIONS

- 230 Vac or 120 Vac

ACCESSORIES

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



MIRION
TECHNOLOGIES

Radiation Monitoring Systems
Division

Mirion Technologies (MGPI) SA
BP 1
FR-13113 Lamanon
France

T +33 (0) 4 90 59 59 59
F +33 (0) 4 90 59 55 18

Mirion Technologies (MGPI) Inc
5000 Highlands Parkway
Suite 150
Smyrna, GA 30082
USA

T +1.770.432.2744
F +1.770.432.9179

Mirion Technologies (MGPI H&B) GmbH
Landsberger Strasse 328a
DE-80687 Munich
Germany

T +49 (0) 89515 13-0
F +49 (0) 89515 13 169

www.mirion.com
145020EN-C