



## RAMSYS

# PIS 204L™

*Particulate and/or Iodine Sampler*

Sampling air from effluent stacks, ventilation ducts or working areas. Version with manual flow rate control.



## FEATURES

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

## DESCRIPTION

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.

# PIS 204L | PARTICULATE AND/OR IODINE SAMPLER

## PHYSICAL CHARACTERISTICS

- Particulate:
  - Filter type: FSLW or equivalent  $\varnothing$  47 to 57 mm (1.8 to 2.2 in)
- 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

- Normal temperature: 0°C to +40°C (+32°F to +104°F)
- Temperature limit: 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: 762 mm (with 1 cartridge) or 800 mm (with 2 cartridges) x 435 mm x 198 mm (30 in or 31.5 in x 17.1 in x 7.8 in)
- Weight: ~ 19 kg (~ 42 lb)
- Color: gray RAL 7030 (decontaminable paint)
- Outlet tube connection:  $\varnothing$  6.3 mm OD (1/4 in)

## 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: 2014/30/EU and 2014/35/EU, 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

Featuring:



[www.mirion.com](http://www.mirion.com)

Copyright © 2019 Mirion Technologies, Inc. or its affiliates. All rights reserved. Mirion, the Mirion logo, and other trade names of Mirion products listed herein are registered trademarks or trademarks of Mirion Technologies, Inc. or its affiliates in the United States and other countries. Third party trademarks mentioned are the property of their respective owners.

145020EN-G



**MIRION**  
TECHNOLOGIES