



RAMSYS™

# PIS 205L™

## Particulate and/or Iodine Sampler



Sampling air from effluent stacks, ventilation ducts or working areas. Specially adapted for stack or duct when an isokinetic sampling is required.

### DESCRIPTION

The PIS 205L sampler 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.

### FEATURES

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

# PIS 205L™ PARTICULATE AND/OR IODINE SAMPLER

## PHYSICAL CHARACTERISTICS

- Particulate:
  - Filter type: FSLW or equivalent Ø 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)
- 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: 880 mm (with 1 cartridge) or 932 mm (with 2 cartridges) x 435 mm x 370 mm (34.6 in or 36.6 in x 17.1 in x 14.6 in)
- Weight: ~ 27 kg (~ 59 lb)
- Color: gray RAL 7030 (decontaminable paint)

## ELECTRICAL CHARACTERISTICS

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

## SIGNALING

- Alphanumeric display: measurement, status...
- Sound alarm: buzzer 90 dBA at 1 meter
- Visual alarm: one 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 cartridge or charcoal cartridge
- Material to adapt to each sheath:
  - Flow rate control
  - Isokinetic sampling



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