



RAMSYS

NGM 202LTM Low Range Noble Gas Monitor

Continuously monitoring the volumetric activity of noble gas in a radioactive effluent gaseous samples.

FEATURES

- Dynamic gamma radiation compensation
- Compact and reliable
- Minimum periodic maintenance

DESCRIPTION

The NGM 202L monitor forms part of the RAMSYS product line.

It has been developed to continuously sample the volumetric activity of noble gas in a radioactive effluent gaseous sample. This monitor can operate as a stand alone device or in conjunction with a particulate monitor (ABPM 201), iodine monitor (IM 201) and with a high range noble gas monitor (NGM 203) to form a very wide range monitoring system.

NGM 202L | LOW RANGE NOBLE GAS MONITOR

PHYSICAL CHARACTERISTICS

- Radiation detected: alpha, beta, gamma
- Detector: dual large differential ionization chamber
- Sampling chamber: 10 I (10000 cc) each
- Energy range: 5 keV to 8 MeV
- Typical measurement range: 10^{+4} to 3.7 $10^{+9}~Bq/m^3$ (2.7 10^{-7} to $10^{-1}~\mu\text{Ci/cc})$

ENVIRONMENTAL CHARACTERISTICS

- Normal temperature: +5°C to +40°C (+41°F to +104°F)
- Temperature limit: -5°C to +55°C (+23°F to +131°F)
- MTBF: > 20 000 hours, with preventive maintenance
- TID (processing unit): 100 Gy (10⁺⁴ rad)

PNEUMATIC CHARACTERISTICS

- Standard flow rate: 35 I/min (1.24 scfm)
- Pressure drop: according to the filter dust loading

MECHANICAL CHARACTERISTICS

- Dimensions: 1354 mm x 825 mm x 440 mm (53.3 in x 32.5 in x 17.3 in)
- Weight: ~ 96 kg (~ 212 lb)
- Color: gray RAL 7030 (decontaminable paint)
- Inlet tube connection: Ø 12 mm OD (1/2 in)
- Outlet tube connection: Ø 25.4 mm OD (1 in)

ELECTRICAL CHARACTERISTICS

- Power supply: 230 Vac 50 Hz or 120 Vac 60 Hz
- Data link outputs: 1 RS232 (LPDU only) and 2 isolated RS485
- Alarm relays: 3 SPDT relays
- I/O: 2 isolated analog outputs and 1 isolated analog input (0/4-20 mA)

SIGNALING (Applicable to LPDU only)

- Alphanumeric display: measurement, status...
- Sound alarm: buzzer 90 dBA at 1 meter
- Visual alarm: 3 lights (red, yellow, green)

REFERENCE STANDARDS

- Nuclear: IEC60761-1 and IEC60761-3
- EMC: 2014/30/EU and 2014/35/EU, IEC61000-6-2 and IEC61000-6-4

VERSIONS

- 230 Vac or 120 Vac
- Local processing and display unit (LPDU) or local processing unit (LPU)
- Pumping unit
- With or without RS485 junction box
- Monitor wall or floor mounting plate

ACCESSORIES

- Calibration tools
- Software: MASS2, RAMVISION...
- USB converters
- Dust filter holder
- PIS sampler

Featuring:



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