PIONEER GEN II
PN2-II

Base Unit

Optional Remote

The Pioneer, with its microprocessor-based system, features a high quality stand-alone controller providing all the necessary hardware for field configurable continuous monitoring of a combination of two toxic and/or combustible gases.

acme ENGINEERING

Manufacturers Of Environmental Controls & Systems

FEATURES

- Bluetooth enabled PionSet app for programing of sensors, activation sequence, operation and calibration
- Out-of-the-box unit can be configured to:
  - CO/NO2 monitoring
  - CO only
  - NO2 only
  - CO integral and remote toxic/combustible monitoring
  - NO2 integral and remote toxic/combustible monitoring
- Independently configured and operated relays and analog outputs
- Integral power supply
- "Plug-and-play" or field configurable through app
- Low maintenance
- Highly accurate, gas specific and temperature and R/H compensated sensing elements
- Standard NEMA 3 enclosure, also available in NEMA 4X
- Audio/Visual alarm

APPLICATIONS

- Energy savings through the intermittent operation of ventilation equipment in enclosed facilities.
- Suitable for garages, tunnels, boiler rooms, warehouses and other enclosed commercial locations where a hazardous build-up of gases may occur.
- Ideal for the retrofit of existing buildings to improve safety and conserve energy.

V2.27.04.24

Pioneer Gen II (PN2-II) Specifications

GASES DETECTED: Integral: CO, NO2
Remote: CO, NO2, O2, H2, CL2, CH4, C3H8, NH3, H2S
Please call us for complete list

SENSOR TECHNOLOGY: Electrochemical or Catalytic Bead, NDIR

SENSING METHOD: Diffusion type

ACCURACY: +/- 1% of calibrated reading

POWER REQUIREMENTS: 120-240 VAC
Optional: 24 V AC/DC

OUTPUTS: Up to 2 SPST relays
Contact Rating: 15 A /250 V AC
Up to 2 analog outputs
0-2 V, 0-4 V 0-5 V

AUDIO ALARM: 85dB

OPERATING TEMPERATURE: -4ºF to 104ºF (-20ºC to +40ºC)*

HUMIDITY RANGE: 0-95% RH Non-condensing

EXPECTED SENSOR LIFETIME: Electrochemical CO: 7 years
Electrochemical other: 2 years
Catalytic Bead: 3 years
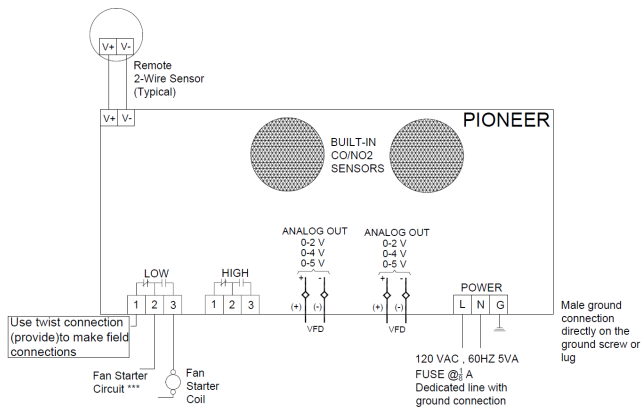NDIR: 10 years

ENCLOSURE: Tested NEMA 3 standards**

CALIBRATION: Yearly

APPROVALS: ETL listed
Conforms to ANSI/UL 61010:2004
Certified to CAN/CSA 22.2 No. 61010-1:2004

* Extended temperature ranges available
** Additional enclosure types available

Typical Wiring Diagram

Ordering Information

MODEL NUMBER	GAS COMBINATIONS
PN2-II-120 (24 or 240)	**Integral** CO NO2 CO/NO2 **Remote** CO, NO2, O2, H2, CL2, CH4, C3H8, NH3, H2S Please call us for complete list
LT	Low Temperature
N4X	Nema 4x housing

For combinations of gases or other gases available, please contact the factory for more information.

Dimensions (base and remote sensor)
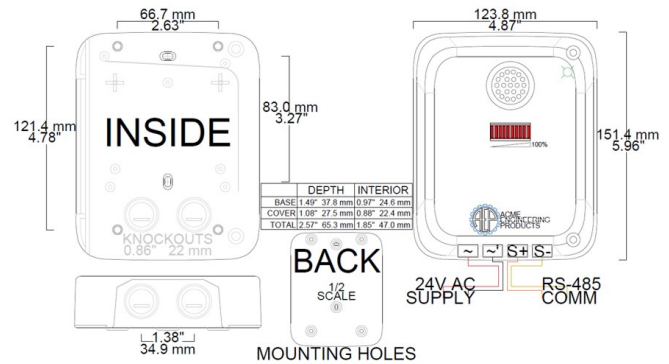
Other Acme Products

The Multi Gas Monitoring System (MGMS) marries traditional HVAC outputs with consumer electronics technologies

Panel with touchscreen display, houses the MGMS-CM command module

Remote web based readings