

Envent Model M90XP

Carbon Dioxide Monitor

The M90XP dual-beam IR CO₂ detection system continuously measures and corrects for the short and long-term changes. The M90XP is a compact CO₂ sensor, with low power consumption, and provides linear analog or digital measurement outputs. Options include adjustable set point control relays.

Applications

- CO₂ is measured routinely in natural gas for product quality and process control purposes. Common ranges are from 0-5% for sales gas and up to 0-30% for inlet CO₂ concentration.
- Gas plant Inlet.
- Certain H₂S-removal chemical processes can be fine-tuned by CO₂ slipstreaming.
- Quantify CO₂ as a combustion by-product.

Features

- Dual-Beam Nondispersive Infrared Technology (NDIR)
- Long-term stability.
- Low power consumption.
- 4-20 mA loop (concentration only)
- Serial RS-232 Standard (all parameters)
- Dual 3 amp Solid State Alarm Relays
- The M90XP dual-beam infra-red carbon dioxide detection system continuously measures and corrects for the short and long-term concentration changes that caused measurement errors in first generation (single beam) carbon dioxide sensors.

Benefits

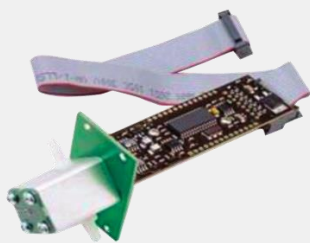
- Quick delivery.
- Full service & training.
- Available with differing sample systems and accessories as required in various applications.



Model M90XP



Model M90XP for ppm
Measurement



Dual Beam Infra-Red Sensor



M90XP Fiberglass Enclosure

Specifications

Operating Power	24 VDC standard 12 VDC, 120/240 VAC optional
Electrical Classification	Class I, Division 1 Groups B, C & D
Operating Principle	Dual-beam, non-dispersive infrared (NDIR)
Detector	Sapphire window with glass frit seal
Sensing Cell Proof Pressure (Sample cell only)	5-25 psig
Measurement Range	0-20% Standard 0-100% Optional
Repeatability	± 0.1 % of reading
Drift	Less than 2.5% of reading/year
Accuracy	± 3% of reading or 0.1% CO ₂ at cal temperature, ± 5% of reading or 0.1% CO ₂ over full operating temperature range
Warmup time	Less than 5 minutes
Operating Temperature	10 to 50°C (standard)
Operating Humidity	Sensing Cell: 0-100% RH (non-condensing) Electronics: 0 - 90% RH (non-condensing)
Storage Temperature	-20 to 60°C (-4 to 140°F)
Storage Humidity	0-90% RH (non condensing)
Digital Interface	RS-232 (all parameters)
Analog Output	Isolated 4-20 mA (concentration only)
Alarm Outputs	2 solid state drivers 2 Amp, 30 VDC maximum
Source Life	10 years minimum
Standard Sample System	Inlet filter (1500psig/103bar max) SS single stage regulator (3000psig/207bar max) Flow meter (100psig/6.9bar max)
Contaminant Sensitivity	Resistant to Mercaptans, Methanol, Glycol, Amines