EC-FX SPECIFICATIONS

Ammonia Gas Sensor

Measurement
- Operating Principle: 3-electrode electrochemical
- Measurement Range: 0-100, 0-200, and 0-250PPM NH₃
- Maximum Overload: 500 ppm
- Lower Detection Limit: < 10 ppm
- Filter: None
- Sensitivity: 100 ± 40 nA/ppm
- Response Time (T90): < 30 s
- Baseline Offset (clean air): < ±0.2 mA
- Zero Shift (+10°C to +40°C): < 4 ppm
- Accuracy: ± 5% full scale
- Repeatability: < 10% of full scale

Mechanical
- Housing Material: Polyphenylene Oxide (PPO) Noryl
- Weight: 4.5 g
- Orientation: Vertical only

Environmental
- Typical Applications: Industrial refrigeration, cold storage, and rooms
- Operating Temperature Range: Continuous: -4º to 122ºF (sensor only)
- Operating Pressure Range: Atmospheric ± 10%
- Operating Humidity Range: 5% to 95% RH non-condensing

Intrinsic Safety Data
- Maximum at 1000ppm: < 0.14 mA
- Maximum o/c Voltage: < 1.2 V
- Maximum s/c Current: < 100 mA

Lifetime
- Long Term Output Drift: < 5% per 6 months
- Expected Operating Life:
  - Cold Storage: 3-4 years in average conditions
  - Engine Room: 2-3 years in average conditions
- Storage Life: 6 months in sealed container
- Standard Warranty: Three years from date of shipment

* ±5% of full scale range at temperature of calibration. Contact HA for additional details.

CAUTION:
EC-FX is designed for operation in a wide range of environments and harsh conditions. However, it is important that exposure to high concentrations of solvent vapors is avoided, both during storage, fitting into instruments, and operation.

EC-FX is designed to be used in safety critical applications. To ensure that the sensor and/or instrument in which it is used, are operating properly, it is a requirement that the function of the device is confirmed by exposure to target gas (bump check). Failure to carry out such tests on a regular basis may jeopardize the safety of people and property.

PLEASE NOTE:
Connection should be made via PCB sockets only. Soldering to pins will render your warranty void.

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