EC-FX High-Range  Technical Specifications
Ammonia Gas Sensor

**MEASUREMENT**
- **OPERATING PRINCIPLE**: 3-electrode electrochemical
- **MEASUREMENT RANGE**: 0-500 and 0-1000 PPM NH₃
- **MAXIMUM OVERLOAD**: 5000 PPM
- **LOWER DETECTION LIMIT**: < 37.5 PPM
- **FILTER**: None
- **SENSITIVITY**: 19 ± 3 nA/PPM
- **RESPONSE TIME (T90)**: < 75 s
- **BASELINE OFFSET (CLEAN AIR)**: +37.5 ppm ± 10%/±S 12.5 ppm
- **ZERO SHIFT (T=+40°C; +20°C; +30°C; +50°C)**: +37.5 ppm ± 10%/±S 31.25 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 engine rooms
- **OPERATING TEMPERATURE RANGE**: Continuous: -4º to 122ºF (sensor only) Storage: -58º to 122ºF (sensor only)
- **OPERATING PRESSURE RANGE**: Atmospheric ± 10%
- **OPERATING HUMIDITY RANGE**: 5% to 95% RH non-condensing

**INTRINSIC SAFETY DATA**
- **MAXIMUM AT 1000 PPM**: < 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: 4-5 years in average conditions Engine Room: 3-4 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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For more information:
www.honeywellanalytics.com

Honeywell Analytics:
Toll free: 800.444.9935
www.honeywell.com

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