

EC-P1

Portable Electronic Ammonia Leak Detector



The Manning Systems EC-P1 is a portable, battery operated instrument for the measurement of ammonia concentrations in ambient air. This highly responsive instrument is a valuable aid for decision making in critical life/safety situations.

The EC-P1 is a complete portable measuring instrument containing an electrochemical sensor, sample pump, flowcell assembly, micro-processor electronics, internal rechargeable battery, and a two-line backlit LCD display. It is extremely useful for locating ammonia leakage from process piping, pumps, valves and storage cylinders. The EC-P1 will also accurately measure ambient gas concentrations in confined spaces or open areas. The internal pump delivers a positive sample flow for quick, accurate measurement.

The instrument's standard measuring range for ammonia is 0-500 ppm with a resolution of

1 ppm. Lowest point of measurement is 5 ppm ammonia.

Rapid cell response and recovery help identify hard-to-find leaks and protect personnel from NH₃ in the low ppm range through the IDLH (immediately dangerous to life and health) threshold.

The EC-P1 is powered by a rechargeable NiCad battery located in the handle, with the charger connection conveniently located at the end of the handle.

The unit is shipped in a padded carrying case containing filter material, a 10" extension wand, battery charger, mounting clip and flow meter.

Applications

- Confined Space Entry Testing
- Fugitive Emissions Testing
- Equipment and Piping Leak Detection
- Ambient Air Measurement
- OSHA Compliance Measurements

Key Features

- Electrochemical sensor provides maximum sensitivity with minimal interference
- Visual/Audible Gas Alarm sounds when setpoints are exceeded
- Two Adjustable Alarm Setpoints
- Backlit LCD Display
- Integral Sample Pump
- Sample Inlet Extension Wand allows sampling of confined spaces prior to entry
- Rechargeable Battery will operate up to 12 hours at 70° F
- Vehicle Recharging Attachment available
- Lightweight, only 11 oz.
- Low Battery and Pump Out Alarms
- Waterproof Housing



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Manning Systems, Inc. provides a complete line of industrial quality Gas Alarm Monitoring Systems for equipment rooms, refrigerated spaces, storage facilities, laboratories and process areas.

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Specifications

Method:

Ammonia selective electrochemical cell

Range:

0-500 ppm NH₃

Resolution:

1 ppm Ammonia

Repeatability:

±3% of full scale

Linearity:

±2%

Display:

Backlit LCD, 2 line by 8 character alphanumeric

Pump:

Miniature rotary vane type, 400 cc/min. nominal

Alarms:

Two concentration alarms

Low battery alarm

Pump out alarm

Alarm Setpoints:

Factory set, but customer adjustable

Audible Horn:

Internal with optional headset

Power Requirement:

Rechargeable NiCad battery – minimum 12 hour operation on full charge (at 70° F)

Operating Ambient Temperatures:

0°F to 120°F (can operate for short periods of time at sub-zero temperatures)

Storage Temperatures:

-40°F to 140°F (for extended sensor life, store in cool environment 50°F to 75°F)

Charger:

Standard 120 VAC

Optional 220 VAC

Optional vehicle adapter

Weight:

11 oz., detector only;
2 lbs. with accessories

Dimensions:

3" x 4" x 8"

Accessories:

Storage case (glass filled polyamide),
10" extension wand, battery charger,
mounting clip and flow meter

Specifications subject to change without notice.

Ordering information

Model:

EC-P1-NH₃-0/500

Options

AB (auto battery adapter)

220 (220 VAC Charger, instead of standard 120 VAC)

HS (headset)

CT Calibration "T"



Other portable gas sensing devices

are available from Manning Systems to measure % level ammonia, R-22, carbon dioxide, carbon monoxide, chlorine, chlorine dioxide, sulfur dioxide, and other gases.

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