

GT-NH₃

Portable Electronic High Level Ammonia Sensor



The Manning Systems GT-NH₃ is a portable, battery operated instrument for the measurement of high level ammonia concentrations in ambient air to aid in emergency response decision making. The GT can also be designed for carbon dioxide or refrigerant sensing.

Manning Systems GT-NH₃ is a complete portable ammonia measuring instrument containing a high level ammonia sensor, sample pump, telescoping sample probe, flowcell assembly, microprocessor electronics, and a two-line backlit LCD display. It is extremely useful in accurately determining actual ammonia concentrations in a major leak situation.

An internal pump delivers a positive sample flow for quick, accurate measurement. For optimal protection, the flowcell assembly is designed to allow sampling by diffusion in the event of pump or probe failure.

The instrument's accurate range is 1,000 to 20,000 ppm (0.1-2.0%) ammonia. Two field adjustable alarm setpoints are provided which initiate sounding of the built-in horn and flashing of the status LED to quickly command the attention of a fully-suited operator.

Periodically the instrument displays the maximum concentration reached since being powered up to aid in decision-making during an emergency situation.

The GT-NH₃ is powered by a rechargeable NiCad battery, with a wall plug-in charger included. Also included with the unit is a padded carrying case.

Applications

- Emergency Hazmat Response
- Fire Department Use
- Determine when explosive levels are being approached

Key Features

- CSA Intrinsically Safe Certification
- Bulk semiconductor sensor provides accuracy at high levels of NH₃
- Quick response and recovery time
- Not harmed by exposure to high ammonia concentrations
- Visual / audible alarms
- Backlit LCD display
- Integral Sample Pump
- Sample probe extends to 32" to allow sampling of confined spaces prior to entry
- Infrared technology used for either CO₂ or R-22

Portable Electronic High Level Ammonia Sensor

GT-NH₃

Specifications

Method:

Bulk Semiconductor

Range:

1,000 to 20,000 ppm (0.1 to 2.0%) ammonia

Resolution:

100 ppm ammonia

Repeatability:

± 5% of full scale

Response Time:

Less than 30 seconds

Display:

Backlit LCD

Pump:

Miniature rotary vane type, 1 LPM nominal

Electronics:

CSA Intrinsically Safe Certification

Alarms:

Two concentration alarms, low battery, pump out, sensor fault

Audible Horn:

Internal

Power:

Internal, rechargeable NiCad battery pack, four hour operation on full charge

Charger:

120 VAC plug-in

Housing:

16 gauge steel, powder coat finish

Weight:

6 lbs.

Dimensions:

3.5" x 6" x 8"

Storage Temperatures:

0°F to 140°F

Operating Temperatures:

0°F to 125°F

Standard Accessories:

Carrying bag, 32" telescoping sample probe, battery charger, flow meter

Gases / ranges available in the GT:

Gas	Standard Range
Ammonia	1,000 – 20,000 ppm
Carbon Dioxide	0 – 1% (10,000 ppm) 0 – 5% (50,000 ppm)
R-22	0 – 3,000 ppm
R134a	0 – 3,000 ppm
R404a	0 – 3,000 ppm
R507	0 – 3,000 ppm

Specifications subject to change without notice.

Sold per Manning Systems standard Limited Warranty.



Specifications for other gases

GT-CO₂**Method:**

Infrared

Range:

0 to 1% (10,000 ppm)
0 to 5% (50,000 ppm)

Resolution:

100 ppm

Repeatability:

± 1% of full scale

Storage Temperatures:

0°F to 140°F

Operating Temperatures:

0°F to 125°F

GT-R22**Method:**

Infrared

Range:

0 to 3,000 ppm

Resolution:

10 ppm

Repeatability:

± 1% of full scale

Storage Temperatures:

0°F to 140°F

Operating Temperatures:

0°F to 125°F

Other Specifications common to all models.

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GT-NH3 19036 02/2006