



## Gas Sensor Transmitter GDX-150



Bacharach's new GDX-150 Ammonia (NH<sub>3</sub>) Transmitter is the most economical solution for monitoring and detecting increased levels of ammonia. Gas concentrations are quickly transmitted via 4-20 mA current loop back to a centralized controller where concentrations can be displayed, alarms activated, or exhaust fans turned on. The GDX-150 is a 2-wire sensor transmitter that accepts low power sensor modules that are easily replaced in the field.

### Compact and Powerful Ammonia Detection

The Bacharach GDX-150 is a rugged stainless steel sensor transmitter utilizing an electrochemical sensor that is sensitive down to 1 part per million (ppm) and can measure concentrations up to 500 ppm. These low detection limits allow actions to be taken at the detection of the smallest leaks. Unlike other sensing technologies, the GDX-150 electrochemical sensor is extremely gas sensitive and specific to ammonia. The compact size of the GDX-150 is ideal for small spaces such as vent stacks and is easily mounted directly onto any 3/4 inch NPT conduit or junction box.



## GDX-150 Features & Benefits:

- Simple 2-wire, 4-20 mA interface transmits signals thousands of feet
- Improved noise immunity with stainless steel sensor head
- Simple, non-obtrusive design
- Robust, tamper-proof housing

## GDX-150 Specifications

<b>Detection Principle:</b>	Electrochemical, Field Replaceable
<b>Coverage:</b>	Single Sensor = 40 Foot Diameter
<b>Measuring Range:</b>	0-500 ppm
<b>Sensitivity:</b>	1 ppm
<b>Dimensions:</b>	1.9" x 3.2" (4.83 cm x 8.13 cm)
<b>Housing:</b>	Type 316 Stainless, Suitable for Class 1, Div 1&2, Gr. B,C,D ¾ Inch NPT Threading
<b>Calibration:</b>	Through GDA-400 or GDA-1600 Controllers
<b>Response Time:</b>	T50 < 30 s , T90 < 90s
<b>4-20 Output Signal:</b>	2-Wire, 4-20 mA Current Sink. Max Output = 25 mA
<b>Long Term Drift:</b>	< 10% per 6 Months
<b>Linearity:</b>	< 10% of Full Scale
<b>Temperature Drift:</b>	< 0.1% per Degree C over Temperature Range
<b>Operating Temperature Range:</b>	-4 to 122°F (-20 to 50°C)
<b>Ambient Humidity Range:</b>	5% to 90% RH (Non-Condensing)
<b>Power:</b>	9 - 36 VDC, 250 mA (@ 24 VDC)
<b>Approvals:</b>	Intrinsically Safe with use of an IS Barrier

## GDX-150 Ordering Information

**5600-1051** GDX-150 Ammonia Transmitter

## GDX-150 Accessories

<b>5600-0004</b>	GDX Calibration Cup/Sample Draw Adaptor
<b>5600-0003</b>	GDX Splash Guard/Remote Cal-Cup
<b>0024-7059</b>	Calibration Kit – Regulator, Tubing and Carrying Case (no gas included)
<b>0051-3160</b>	NH <sub>3</sub> Calibration Gas, 25 ppm, 58 Liter
<b>0051-7131</b>	Zero Grade Air, 103 Liter
<b>5600-5003</b>	NH <sub>3</sub> Replacement Sensor

*\*GDX-150 must be used in conjunction with Bacharach's GDA-400 or GDA-1600 controllers for calibration and maintenance.*

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September, 2010 - REV. 0 Printed in U.S.A.



ISO 9001:2008