

**Ammonia & Hydrogen Sulfide  
Breakthrough Indicator  
For Carbon Absorbers  
NH<sub>3</sub> & H<sub>2</sub>S BTI 2  
(PN: 402)**



*Manual*



### 1. Application

The Ammonia & Hydrogen Sulfide BTI 2 (PN: 402) is qualitative (yes/no) colorimetric indicator for the end-of-service life of carbon absorbers and filters. The indicator designed to provide real-time indication of the breakthrough of ammonia and hydrogen sulfide gases.

### 2. Specifications

- |                              |   |
|------------------------------|---|
| a. Weight:                   | 129.5g (4.6oz)  |
| b. Dimensions:               | 11.43cm (4.5in), diameter 5.08cm (2.0in)                                  |
| c. Inlet dimensions:         | 1.5" MNPT   |
| d. Operating temperature:    | -20°C to 65°C (-4°F to 149°F)   |
| e. Operating humidity:       | 5% RH to 90%RH  |
| f. Minimum detectable limit: | 10ppm•hr ammonia & 1.0ppm•min hydrogen sulfide at 30 cm/sec face velocity |
| g. Color change:             | Light blue to purple or black   |
| h. Storage temperature:      | 4°C to 25°C, (39°F to 77°F)   |
| i. Shelf life:               | 2 years at 4°C to 25°C, (39°F to 77°F)                                    |
| j. Service life:             | 2 years   |
| k. Light effect:             | None  |

**Cross interferences:** No interferences are known.

### 3. Operating Instructions

- Ensure that packaging pouch is intact.
- Open packaging pouch by tearing off the top part from one of side notches.
- Remove the Breakthrough Indicator from the packaging pouch.
- Remove the 1.5" threaded plug from the carbon absorber outlet lid.
- Remove the protective red plug to activate the breakthrough indicator.
- Thread the Breakthrough Indicator into the 1.5" threaded carbon absorber outlet lid.



- Replace carbon absorber when the Breakthrough Indicator changes color to purple or black.

