

**Ammonia  
Breakthrough Indicator (BTI)  
For Carbon Absorbers**

(PN: 196)



*Manual*



## 1. Application

The Ammonia BTI (PN: 196) is qualitative (yes/no) colorimetric indicator for the saturation and end-of-service life of carbon absorbers. It is designed to provide real-time indication of the breakthrough of ammonia vapor.

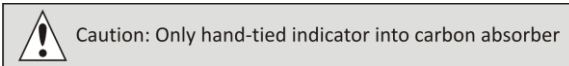
## 2. Specifications

- |                              |   |
|------------------------------|---|
| a. Weight:                   | 28g (1.0oz)                             |
| b. Dimensions:               | 89.9mm (3.5in), diameter 24.5mm (1.0in) |
| c. Inlet dimensions:         | ¾" 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 at 30 cm/sec face velocity     |
| g. Color change:             | Light blue to purple                    |
| 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:             | 18 months                               |

**Cross interferences:** None 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 ¾" threaded plug from the carbon absorber outlet lid.
- Remove the protective red plug to activate the breakthrough indicator.
- Screw in the Breakthrough Indicator into the ¾" threaded carbon absorber outlet lid.



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



Unexposed



Exposed Change  
carbon absorber

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