



# Formaldehyde Breakthrough Indicator For Carbon Absorbers

(PN: 183)

*Manual*



### 1. Application

The Formaldehyde Breakthrough Indicator (PN: 183) is qualitative (yes/no) colorimetric indicator for the end-of-service life of carbon absorbers. It is designed to provide real-time indication of the breakthrough of formaldehyde vapor.

### 2. Specifications

|                              |   |
|------------------------------|---|
| a. Weight:                   | 28g (1.0oz)   |
| b. Dimensions:               | 89.9mm (3.5in), diameter: 24.5mm (1.0in)  |
| c. Inlet dimensions:         | ½" MNPT   |
| d. Operating temperature:    | -20°C to 55°C (-4°F to 131°F)   |
| e. Operating humidity:       | 5% RH to 85%RH  |
| f. Minimum detectable limit: | 0.4ppm-hr at 30 cm/sec face velocity  |
| g. Color change:             | Dark brown or dark blue   |
| h. Storage temperature:      | 4°C to 25°C, (39°F to 77°F)   |
| i. Shelf life:               | 14 months at 4°C to 25°C, (39°F to 77°F)  |
| j. Service life:             | 14 months   |
| k. Light effect:             | For indoor use only.<br><a href="#">Outdoor use: Use with BTI protective sleeve, PN: 180-3000. Sold separately.</a> |

Cross interferences: Acrolein and aldehydes found in cigarette smoke react with approximately the same sensitivity. No other 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 ½" threaded plug from the carbon absorber outlet lid.
- Remove the protective red plug to activate the breakthrough indicator.
- Thread the Breakthrough Indicator into the ½" threaded carbon absorber outlet lid.



**Caution: Only hand tighten indicator into carbon absorber**

- Replace carbon absorber when the Breakthrough Indicator changes color to dark brown or dark blue.



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