

**Mercury and Mercury II Compounds
Breakthrough Indicator (BTI)
For Carbon Absorbers**

(PN: 184)



Manual



1. Application

The Mercury Breakthrough Indicator (PN: 184) 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 mercury and mercury compounds vapors.

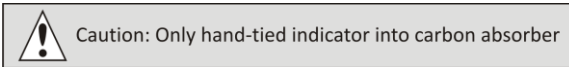
2. Specifications

- | | |
|------------------------------|--|
| 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 50°C (-4°F to 122°F) |
| e. Operating humidity: | 5% RH to 90%RH |
| f. Minimum detectable limit: | 0.5mg/m ³ •hr. at 30 cm/sec face velocity |
| g. Color change: | Off white to peach |
| h. Storage temperature: | 4°C to 25°C, (39°F to 77°F) |
| i. Shelf life: | 12 months at 4°C to 25°C, (39°F to 77°F) |
| j. Service life: | 12 months |

Cross interferences: Strong oxidizers. 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 ¾" threaded plug from the carbon absorber outlet lid.
- Remove the protective red plug to activate the breakthrough indicator.
- Thread the Breakthrough Indicator into the ¾" threaded carbon absorber outlet lid.



- Replace carbon absorber when the Breakthrough Indicator changes color to peach.



Unexposed



Exposed
Change carbon absorber

