



Sulfur Dioxide Gas  
Breakthrough Indicator  
For Carbon Absorbers  
SO<sub>2</sub> BTI 2  
(PN: 420)



*Manual*



### 1. Application

The Sulfur Dioxide BTI 2 (PN: 420) is qualitative (yes/no) colorimetric indicator for the end-of-service life of carbon absorbers and filters. It is designed to provide real-time indication of the breakthrough of sulfur dioxide gas.

### 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 55°C (-4°F to 131°F)            |
| e. Operating humidity:       | 5% RH to 90%RH                           |
| f. Minimum detectable limit: | 0.5ppm-hr at 30 cm/sec face velocity     |
| g. Color change:             | Orange to red                            |
| 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                                |

Cross interferences: Basic vapors in high concentrations impair the performance of the sulfur dioxide breakthrough indicator. Acid vapors produce similar color. 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 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.



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

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



Filter is Good



Replace Filter



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