

# Ammonia & Hydrogen Sulfide Breakthrough Indicator For Carbon Absorbers

(PN: 192)



*Manual*



### 1. Application

The Ammonia & Hydrogen Sulfide Dual Breakthrough Indicator (PN: 192) 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: 28g (1.0oz)
- b. Dimensions: 89.9mm (3.5in), diameter 24.5mm (1.0in)
- c. Inlet dimensions: 3/4" MNPT
- d. Operating temperature: -20°C to 65°C (-4°F to 149°F)
- e. Operating humidity: 5% RH to 95%RH
- f. Minimum detectable limit: 10.ppm•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
- j. Service life: 2 years

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

### 3. Operating Instructions

- a. Ensure that packaging pouch is intact.
- b. Open packaging pouch by tearing off the top part from one of side notches.
- c. Remove the Breakthrough Indicator from the packaging pouch.
- d. Remove the 3/4" threaded plug from the carbon absorber outlet lid.
- e. Remove the protective red plug to activate the breakthrough indicator.
- f. Thread the Breakthrough Indicator into the 3/4" threaded carbon absorber outlet lid.



Caution: Only hand-tied indicator into carbon absorber

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

