

## Ammonia & Hydrogen Sulfide Breakthrough Indicator With Auxiliary Filter Trap NH<sub>3</sub> & H<sub>2</sub>S BTI AFT (PN: 655)

Manual



Ammonia  
Change carbon absorber



Unexposed



Hydrogen Sulfide  
Change carbon absorber



### 1. Application

The Ammonia & Hydrogen Sulfide BTI AFT (PN: 655) is qualitative (yes/no) colorimetric indicator for real-time indication of ammonia vapor & hydrogen sulfide gas. The indicator is equipped with auxiliary filter trap to ensure no ammonia vapor and or hydrogen sulfide gas escape to the outside environment while the indicator changing color.

### 2. Specifications

- a. Weight: 118g (4.2oz)
- b. Dimensions:
  - Breakthrough indicator (Part A): 89.9mm (3.5in), diameter 24.5mm (1.0in)
  - Auxiliary filter trap (Part B): 41mm (1.6in), diameter 81mm (3.2in)
- c. Inlet dimensions: ¾" MNPT
- d. Operating temperature: -20°C to 50°C (-4°F to 122°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 at 4°C to 25°C, (39°F to 77°F)
- j. Service life: 2 years

Cross interferences: No interferences are known.

### 3. 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 (Part A), Figure 1, and the auxiliary filter trap (part B), Figure 2, from the packaging pouch.
- d. Screw the breakthrough indicator (Part A) into the auxiliary filter trap (part B) as shown in Figure 3.
- e. Remove the protective red plugs to activate the breakthrough indicator.
- f. Screw in the Breakthrough Indicator into the ¾" threaded carbon absorber outlet lid. Teflon tap can be used on threads to ensure proper seal.



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

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



Figure 1



Figure 2



Figure 3

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