

**Hydrogen Sulfide  
Breakthrough Indicator Sticker  
For Sewer Manhole Filters  
BTIS SMF  
(PN: 138-0000)**






*Manual*



### 1. Application

The Hydrogen sulfide BTIS SMF (PN: 138-0000) is qualitative (yes/no) colorimetric indicator for the end-of-service life of filters. The Indicator designed to provide real-time indication of the breakthrough of hydrogen sulfide gas.

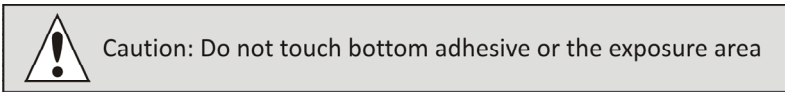
### 2. Specifications

- |                              |  |
|------------------------------|--|
| a. Weight:                   | 0.4g (0.02oz)  |
| b. Dimensions:               | 2.8mm (0.11in), $\phi$ : 38.1mm (1.5in)  |
| c. Operating temperature:    | -20°C to 65°C (-4°F to 149°F)  |
| d. Operating humidity:       | 5% RH to 95%RH   |
| e. Minimum detectable limit: | 1.0ppm•min at 30 cm/sec face velocity  |
| f. Color change:             | Light blue  to brown  to black  |
| g. Storage temperature:      | 4°C to 25°C, (39°F to 77°F)  |
| h. Shelf life:               | 2 years at 4°C to 25°C, (39°F to 77°F)   |
| i. Service life:             | 2 years  |

**Cross interferences:** No 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 indicator sticker from the packaging pouch.
- Peel off the protective liner to expose the bottom adhesive (Figure 1).



- Hold the sticker from the edges, as shown in Figure 2, and place it on center clean area of the filter's outlet with the reading area (glossy surface) of the sticker facing up.
- Press firmly to adhere sticker to the filter's outlet Figure 3.
- Replace filter when the reading area of the indicator changes color to brown or black.

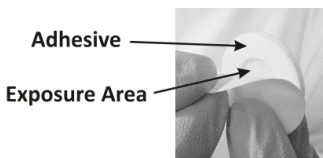


Figure 1



Figure 2

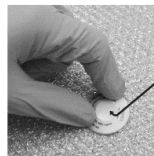


Figure 3