



T-ION-TVOC Sensor

Volatile Organic Compound (VOC) Sensor

Dependably measure volatile organic compounds with the TVOC sensor. With the deployment of a fixed continuous monitor, users can avoid dangers by monitoring areas in question. A variety of industries use the TVOC to minimize poisoning and explosions.

Requires analog port selection during U30 system configuration and use of a S-FS-CVIA when using the H22-001 data logger. When using a U12 data logger or ZW series data loggers, this sensor requires a 4-20mA input cable (CABLE-4-20mA) and external power provided by an AC adapter (AC-SENS-1).

[View Ion Science's TVOC manual](#)

Supported Measurements:

Volatile Organic Comp.

Key Advantages:

- Intrinsically Safe for use in hazardous areas



T-ION-TVOC Sensor Specifications

Measurement range: selectable 0 - 10, 0 - 100, 0 - 1000 ppm (parts per million)

Accuracy: (0-10 and 0-100 ppm) +/- 2%; (100-1000 ppm) +/- 5%

Linearity: (0 - 100 ppm) > 98%

Input power, sensor: 5 - 28 VDC, 65 mA

Input power, 4-20mA loop: 8 - 35 VDC, 22 mA

Operating temperature range: -200C to 500C (-40F to 1220F)

Operating humidity range: 0 to 95% RH non-condensing

Response: sensor T90 < 5 sec.

Sensor: PID Lamp, 10.6 eV (Krypton)

Lamp duty cycle: selectable 5 sec. to 5 min. (1 min. std.)

Sampling process: diffusion

Output signal: 4 - 20 mA

Dimensions: 7.11x4.88x2.86 in (181x124x72.6 mm)

Weight: 2.9 lbs. (1.3 kg)

Display: 7 segment 4-digit LCD, 4 colors

Calibration: four stage

Ingress protection: (TVOC) - IP65; (sensor) - IP54

Intrinsic safe approvals: II 2 G Eex ia IIC T4, cert # Baseefa05ATEX0277