



Easy setup and simple operation

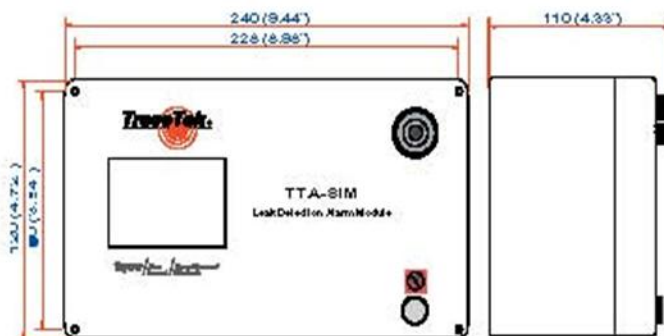
The TTA-SIM has been designed for use with TraceTek sensing cables, point sensors and normally open, dry contact devices (float switch, pressure or vacuum switch, optical probe with adapter, limit switch, etc.). Up to 150 m (500 ft) of sensor cable can be monitored by the TTA-SIM.

When liquid is detected, the unit indicates the leak with an LED and audible alarm, and switches a relay to provide local voltage-free contact closure. The leak location is measured and can be communicated to a host monitoring system. With the TTA-SIM-2 option, the leak location is displayed on a built-in LCD readout. No field calibration is required.

The TTA-SIM can be used as a stand-alone leak detection alarm unit, or it can be installed in networks with other TraceTek TTA-SIM, TTSIM, TT-NRM or TTDM-128 modules. The TTA-SIM can be configured using a Microsoft Windows™ based PC or a TraceTek TTDM-128 network master module.

Design Features

- Rugged polycarbonate enclosure for tough environments.
- 60 dB Audible alarm with silence button.
- Voltage-free contacts for alarm signaling.
- LED's to indicate power, leak, cable trouble, and communication status.
- Optional LCD leak location display.
- Simple twisted shielded pair serial RS-485 communications using a variety of communication protocols (protocol selection is automatic).
- Available for 120 or 230 Vac 50/60 Hz power supply.
- Relay software selectable for normally energized or normally de-energized operation.



General features

| | |
|---------------------------------|--|
| Sensor compatibility | All TraceTek sensing cables and point sensors or contact closure devices |
| Maximum length of sensing cable | 150 m (500 ft) |
| Precision | 0.5% of sensor length ± 0.6 m (2 ft) |
| Audible alarm | >60 decibels at 0.6m (1 ft) |

Environmental ratings

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|-----------------------|---|
| Storage temperature | -18°C to 60°C (0°F to 140°F) |
| Operating temperature | 0°C to 50°C (32°F to 122°F) |
| Enclosure integrity | NEMA 1 / IP 20 (non-hazardous locations only) |
| Humidity | 5% to 95% non-condensing |

Power requirements

| | |
|--------------------------------|-------------------------------|
| TTA-SIM-1A-120 & TTA-SIM-2-120 | 96 to 132 Vac, 50/60 Hz, 3 W |
| TTA-SIM-1A-230 & TTA-SIM-2-230 | 216 to 253 Vac, 50/60 Hz, 3 W |

Ordering information

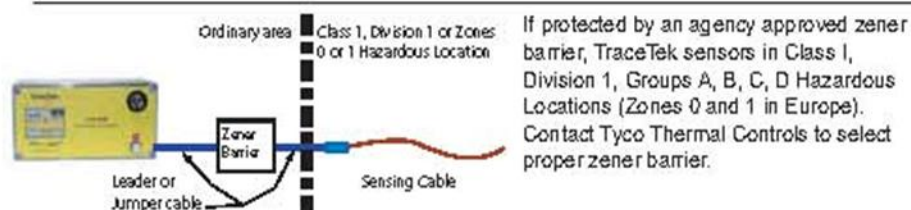
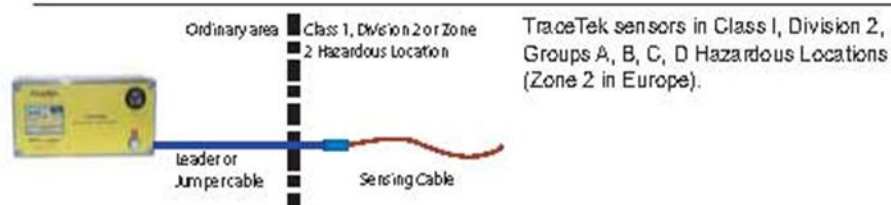
| Catalog Number | Description |
|----------------|--|
| TTA-SIM-1A-120 | 120 Vac TTA-SIM |
| TTA-SIM-2-120 | 120 Vac TTA-SIM with leak location display |
| TTA-SIM-1A-230 | 230 Vac TTA-SIM |
| TTA-SIM-2-230 | 230 Vac TTA-SIM with leak location display |

TTA-SIM Alarm Module

| | | |
|------------------|------------------------|---|
| Serial interface | Network configuration | RS-485 two wire (twisted shielded pair) network, 9600 baud, addressable from 1 to 127 |
| | Communication protocol | MODBUS™, OptoMux™ or Johnson Controls Metasys™ |
| Relay contacts | Type | Form C (SPDT) |
| | Action | Software selectable; normally energized or normally de-energized; alarm on leak only, or alarm on either leak or sensor fault |
| | Rating | 2 Amps maximum, 250 Vac or 30 Vdc |

Applications

Although the TTA-SIM module must be installed in a non-hazardous location, it may monitor intrinsically safe TraceTek sensors located in hazardous areas as shown below.



Approvals & Certifications



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