



# A.T. Monitors

A leader in leak detection and level monitoring equipment

## ATI-5100 Leak/Level Monitor

The ATI-5100 (formerly AMC-5100) is a full service 16 channel monitor designed to interface with any Normally Open or Closed liquid sensors and notify you of any leaks or spills immediately. The real-time response of the ATI-5100 allows you to avoid costly cleanups or interruptions in service, helping to protect your investment and the environment. The monitor features 12 intrinsically safe (IS) channels and 4 non-IS channels offering flexibility at a price point that is rarely found among comparable products on the market.

### Liquid Detection Circuit Board

Each sensor is wired to a numbered channel. When liquid makes contact with a sensor, the assigned channel goes into alarm. This causes the channel's LED to light up and sound an alarm for the attendant on duty.

**Monitoring Capability:** 12 Intrinsically Safe (IS) barrier protected channels (zones) capable of monitoring any number of sensors in each zone. 4 non-IS channels (can be used for sensors in non-hazardous areas or ATI-5020 probes).

**Protection Circuit:** Diode/resistor/fuse IS barrier on each of the 12 IS channels.

**Detectable Liquids:** Refer to sensor data sheets for types of liquids.

### Indicators and Alarms

**Power Indicator:** Green LED.

**Battery Low Indicator:** Yellow LED.

**Liquid Alarm Indicators:** 16 Red LEDs.

**Audio Alarm Buzzer:** 90dB @ 10cm, 3.6kHz, continuous for alarms and intermittent for battery low.

**Alarm Acknowledge Switch:** External pushbutton on right side.

**Alarm Reset Switch:** Pushbutton on front panel.

### Relay Circuit Board

The ATI-5100 has 16 relays which can provide notification of critical conditions about liquid leaks or levels to remote locations and control pumps, dispensers or any other external device.

**Relays:** 16 SPDT relays rated for 1 Amp max.

**Contacts:** Relays are jumper-selectable for Normally Open or Normally Closed.

### Alarm Acknowledge Switch

The acknowledge button silences the alarm buzzer but leaves the LED indicator on to remind the attendant of a potential leak or alarm level. If no action is taken within two hours, the alarm buzzer will sound again, until the situation is resolved and reset button is pressed.



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## Alarm Reset Switch

The reset button is used to return the monitor to normal operating mode after an alarm condition. Even if the alarm condition disappears before corrective action is taken, this button must still be reset. This is designed to keep the lock-box key holder informed of all problems and to prevent the attendant from tampering with a sensor without first giving a qualified maintenance person the opportunity to investigate the situation.

## Lock Box

A security feature designed to discourage tampering with circuits or the "Reset Alarms" switch.

## Built-in Battery Backup

The battery backup option ensures the system will continue to function when primary power is temporarily lost. The battery life, with all three batteries installed, will exceed 100 hours under normal conditions.

*Batteries:* Up to 3 Gel-Cells, 12VDC/1.2AH each.

*Battery Low Indicator:* Yellow LED.

*Audio Alarm:* Intermittent beeping when the batteries are at a critically low voltage.

## Mounting and Accessibility

The ATI-5100 can be mounted under counters, in kiosks or other small area for ease of access and visibility to the attendant.

## Power Requirements

*Main Power:* 120VAC, 60Hz @ 1A max.

*Fuse Type and Rating:* AGX 2 Amp or equivalent.

## Dimensions

H 9.3"/22.5cm x W 13"/31cm x D 6.8"/18.5cm.

*Enclosure Material:* ABS and Polycarbonate.

## Operating Temperature Range

*Ambient:* 0 to +60 °C (+32 to 140 °F).

## Warranty

One (1) year, parts and labour, subject to standard Armstrong Technologies' terms and conditions.

## COMPATIBLE SENSORS

**5005 Series Water Sensors**

**5007B – Dual Liquid Sensing Cable**

**5008 – Vacuum Sensor**

**5010 – Liquid Level Float Sensors**

**5010S – Sump Brine Sensor**

**5010W – Interstitial Leak Sensor**

**5016 Series Petroleum Sensors**

**5025 – Water Detection Cable**

**5020 – Liquid level probe**

## REMOTE ALARM



For monitoring and acknowledging at non-hazardous remote location, A.T.Monitors offers the **ATI-RAM1-RLV**.

For more information, visit [www.atmonitors.com](http://www.atmonitors.com) or talk to a qualified agent.