

Optical Sensing Panel

Product Overview

The Aquitrone AT-OSP is a 4 zone panel designed for use with AT-OSP Probes for the detection of diesel fuel, hydraulic oil / fluid, lubricating oils and many other conductive liquids, providing visual and audible indication when a leak has occurred. The panel has 2 sets of DPDT volt free alarm contacts to connect to other external alarm equipment, BMS and PLC's.



The panel display includes LED's for each of the four zones. In the event of a leak the alarm sounds, and the LED indicates the zone where the leak has occurred. The operator silences the alarm by pressing the mute button. A red flashing leak LED indicates the leak has cleared and requires the reset button to be pressed. In the event of multiple alarms, the panel will not reset until all the leaks have been cleared. Pushing reset will also reset the volt free contacts.

The AT-OSP metal enclosure can be easily mounted to a wall or other flat surface. A semi-flush mounting flange is also available. The enclosure is lockable, has an IP54 rating and a 90 decibel audible alarm (door open at 30cm). An auxiliary remote alarm (AT-RAP) can be added to the system for remote locations such as reception areas and security rooms.

Applications

The AT-OSP is ideally suited as a standalone panel or for integration into centralised monitoring systems. Up to four optical sensors can be connected to the panel with a 3-core cable to monitor applications include monitoring leaks on dual wall fuel tanks and pipes, within standby generators, bulk and day fuel storage tank rooms, adjacent to pumps, sumps, lift pits or other locations where a discrete sensor can be installed.

Technical Information

Optical detection sensors	T-OSP, floor mounted or M12 fine thread, with 3 metre lead. (Longer cable lengths by special order). 3/4" BSP adaptor available.
Maximum length of cable per sensor	100 metres (328 ft)
Enclosure	Powder coated steel, colour RAL 7032, lockable
Dimensions, L x W x D	240 x 210 x 85mm
IP Rating	IP54
Temperature	-50°C
Humidity	6% to 95% non-condensing
Power supply	85 to 265 Vac, 50/60Hz
Relay Output	Volt free relay contacts activated by leak (NC/COM or NO/ COM)
Status LED	Power (Mains-Green, solid operation –normal operation. Flashing after a power outage. Alarm (red, solid for a leak present and red flashing to indicate leak cleared).

Ordering Information

Product Number Panel	3535 AT-OSP 4 zone alarm panel
Product Number Sensors	3538 AT-OFS Optical floor sensor
	3542 AT-OIS Optical Immersion sensor M12 fine thread, 3 meter lead.
	4789 1" BPS thread adaptor.
	4783 3/4" BPS thread adaptor.

Approvals

Electromagnetic compatibility (EMC)

Compliant with standards for emissions EN61000-6-2:1999 (Heavy industrial)

Compliant with standards for immunity EN50081-1

Ancillary Products

2336 AT-RAP Remote Alarm Panel (12/24Vac/dc)

Important

All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application.