



PAL-AT/TS® Series

Leak Detection System

Models No: TS30C, TS75C, TS30K

Overview

PAL-AT/TS® is a versatile leak detection controller with advanced features that can detect leaks of conductive and non-conductive liquid. The superior sensing technology can support wide range of applications for water, corrosive liquids, hydrocarbons and dielectric fluids. The PAL-AT/TS® can operate as standalone leak detection system, as part of an enterprise solution of multiple networked PAL-AT/TS® systems monitored by PALCOM® software or as an integrated solution with a third party BMS systems via Modbus or BACnet. The enhanced touch screen user interface provides intuitive user interface with real-time facility layout for ease of locating leak locations.

PAL-AT® Series Model Overview

| Model No. | Sensor Channels | Max Cable Length/Channel ft / (m) | Total Cable Length ft / (m) |
|-----------|-----------------|--------------------------------------|-----------------------------|
| TS30C | 1 | 7,500ft / (2300m) | 7,500ft / (2300m) |
| TS75C | 2 | 7,500ft / (2300m) | 15,000ft / (4600m) |
| TS30K | 4 | 7,500ft / (2300m) | 30,000ft / (9200m) |

Key Features

- Detects conductive & non-conductive liquid such as water, sulfuric acid, hydrocarbon and dielectric fluids
 - Capable of detecting multiple and growing leaks
 - Heads up display to provide system health status
 - 10.2" touchscreen monitor option available with real-time facility layout
 - Comprehensive events and logs stored locally with simple download function
 - Dust and dirt proof to eliminate false alarm
 - NEMA12 / IP52 rated enclosure for indoor application
 - Optional NEMA 4X / IP66 enclosure available
 - Modbus TCP, BACnet® (optional: requires additional hardware), Modbus RTU and Modbus RTU over TCP protocols for 3rd party integration
 - Compatible with PALCOM® as networked solution for remote monitoring
 - FM 7745 Approved for 30 seconds response time for detecting hydrocarbon
 - Optional Zener barrier panel for intrinsically safe requirements (REF. Zener barrier panel datasheet)
- Hazardous locations rating: Class I, Division 1, Groups C & D, Zone 0 and Group IIB

physical & mountings

| | |
|-------------|---|
| Dimensions: | 13.75" x 11.81" x 4.00" / (350mm x 300mm x 102mm) |
| Weight: | Touchscreen model: 19.3lb / (8.75kg) |
| Mounting: | Wall mount thru holes on back of panel |

environmental and performance

| | |
|------------------------|--|
| Operating temperature: | 32°F to 122°F / (0°C to 50°C) |
| Max Humidity: | 95% RH at 122°F / (50°C) |
| Ingress Protection: | IP52 - standard Indoor only |
| NEMA Rating: | NEMA 12 - standard Indoor only |
| Enclosure Option: | IP66 or NEMA 4X (Optional for outdoor) |

electrical & communications

| | |
|----------------------|--|
| Supply Voltage: | 110-240 VAC, 50/60 Hz, 0.3 A / 70VA 24 VDC, 60W |
| Ethernet Port: | 1 Port |
| Communication Ports: | Port 1 – RS485 or RS232 Port 2 – RS232 (Available for application use on standard version only) |
| Relay Type: | SPDT Dry Contacts, 10A / 250 VAC |
| No. of Relays: | TS30C x 3 TS75C x 4 TS30K x 6 |

regulatory compliance



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