



### **DESCRIPTION:**

- · Probe Operating Temperature:
- 0°F to 180°F (-18°C to 80°C)
- Probe Length: 1.25" (32 mm)
- Probe Diameter: .625" (16 mm)
- Probe Lead Length: 20 ft (6 m)
- Activation Level (min): .62" (16 mm) •
  - Junction Box: (PAL-AT ONLY)
    - NEMA 4X 10" x 8" x 4"
    - (250 mm x 200 mm x 100 mm)
- Material: 304 Stainless Steel •

## **APPLICATIONS:**

- SUMPS MANHOLES DOUBLE WALL TANK
- SEALED TRENCHES DRIP PANELS
- INDOOR WATER DETECTION



The **PWS** probe detects all conductive liquids - water, acid, bases, chemicals, etc. Its solid-state, stainless steel construction allows it to be used in corrosive environments and reset quickly after removal from a liquid.

The unique design of the PWS probe eliminates the need for external power at the probe.

A **PWS** probe is available for the PAL-AT<sup>®</sup> or LiquidWatch<sup>®</sup> systems:

The PWS probe for the PAL-AT can easily be connected into a cable "sensing string" providing increased utilization of the PAL-AT capabilities. Each probe assembly includes a probe integrator with 60 ft (18 m) of jumper cable to connect to the sensing string, 20 ft (6 m) of lead wire to attach the probe to the probe integrator and a NEMA 4X junction box.

The **PWS** probe for LiquidWatch includes the probe adapter. Additional lead wire is used if necessary.

# PAL-AT NOTE:

- A "-S" probe must be connected in the first 5,000 ft (1,500 m) of the sensing string.
- A "-L" probe must be connected more than 5,000 ft (1,500 m) from the PAL-AT panel.



# PROBE ASSEMBLY DETAIL

# PART NUMBERS:

PAL-AT: • PWS-S • 8027630 • PWS-L • 8027940 LiquidWatch: • PWS-LW • 8027904





Typical PHL Probe Resetability Table	
Liquid	Reset
1, 1, 1, Trichlorethane Methyl Ethyl Ketone Xylene (mixed) Naphtha Gasoline Kerosene Diesel Fuel Jet Fuel • A, JP4, JP5 Crude Oil • Lt., Med., Hvy. The <b>PHL</b> probe responds to all the liquid minute. The number of times a sensor will res carbon purity and exposure time. Due to the may be encountered in each installation, this guide. Actual performance may differ from the	set is dependent on hydro- e variable conditions which data is only provided as a
The PHL does not respond to alcohols.	
Recommended test liquid is Coleman® Brand Camp Fuel.	

(Do not swirl or agitate the probe in any hydrocarbon liquid. It may damage the sensor element.)

Table 1

# PHL

The **PHL** probe 's small size allows it to fit into monitored areas too small for the standard PHLR hydrocarbon probe. The **PHL** probe's patented solid-state construction allows it to respond to most liquid hydrocarbons but ignore vapors, thus virtually eliminating false alarms due to vapors. **PHL** is responsive to a broad range of fuels and solvents. The probe resets quickly after removal from exposure to most volatile hydrocarbons (see Table 1).

The unique design of the **PHL** probe eliminates the need for additional power at the probe.

A **PHL** probe is available for the PAL-AT<sup>®</sup> or LiquidWatch<sup>®</sup> systems:

The **PHL** probe can easily be connected into a PAL-AT<sup> $\otimes$ </sup> cable "sensing string" providing increased utilization of the PAL-AT capabilities. Each probe assembly for PAL-AT includes a probe integrator with 60 ft (18 m) of jumper cable to connect to the sensing string, and 20 ft (6 m) of lead cable to attach the probe to the integrator.

The **PHL** probe for LiquidWatch includes the probe adapter that is installed in the 20 ft (6 m) long probe lead wire. Additional lead wire is used if necessary.

### PAL-AT NOTE:

 A "-S" probe must be connected in the first 5,000 ft (1,500 m) of the sensing string.

• A"-L" probe must be connected more than 5,000 ft (1,500 m) from the PAL-AT panel.

### PART NUMBERS:

- PAL-AT
- PHL-S 8027620
- PHL-L 8027900 LiquidWatch

• PHL-LW• 8027901

### **DESCRIPTION:**

- Probe Operating Temperature: 0°F to 95°F (-18°C to 35°C)
- Probe Length: 1.25" (32 mm)
- Probe Diameter: .625" (16 mm)
- Probe Lead Length: 20 ft (6 m)
- Activation Level (min): .25" (6.4 mm)
  - Junction Box: (PAL-AT ONLY)
  - NEMA 4X 10" x 8" x 4" (250 mm x 200 mm x 100 mm)

## APPLICATION:

- DOUBLE WALL TANK
  DOUBLE WALL PIPES
- SÉALED TRENCHES

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