

HCD-P Sensor Probe

Description

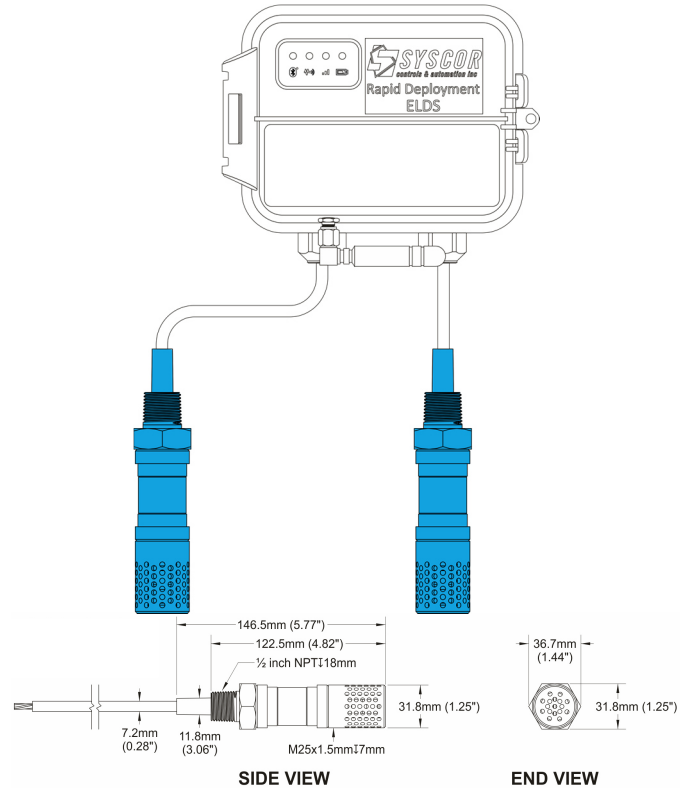
Syscor's Hydrocarbon Detector with HDPE enclosure (HCD-P) sensor probe can detect hydrocarbons (butane and heavier). The HCD-P can only be wired to Syscor's Rapid Deployment External Leak Detection System (ELDS).

Detection and Measurement Capabilities

Hydrocarbon Detection: Syscor has developed and qualified, in close cooperation with the petroleum industry, a new generation of hydrocarbon detection Polymer Absorption (PA) Sensors. Each probe contains two redundant PA Sensors built with Syscor's proprietary chemistry. The chemistry has a high signal-to-noise ratio, methane immunity, and moisture resistance. In addition, the probe has the following capabilities:

- Detects hydrocarbons upon contact in air, underground, or within water bodies;
- Functions even when fully immersed in hot or cold water for years (including ice);
- Survives over 30 freeze/thaw cycles.

The HCD-P sensor probe is capable of self-calibration.



Learn More

Polymer Absorption (PA) Sensors	https://www.syscor.com/technology/pas
Micro-Electro-Mechanical-System (MEMS)	https://www.syscor.com/technology/mems
Rapid Deployment External Leak Detection System (ELDS)	https://syscor.com/downloads/PAELDS01DSS.pdf
Hydrocarbon Detector with HDPE Enclosure (HCD-P) Sensor Probe	https://www.syscor.com/downloads/HCD01DDS_HCD-Sensor.pdf

Specifications

Functional Specifications	
Power Usage	Typical <0.1 W (system = Digi Connect Sensor+ and up to two HCD-P sensor probes)
Sensor Features	Hydrocarbon Detection (butane and heavier)
Physical Specifications	
Power Supply	Syscor's Rapid Deployment ELDS
Communication	HCD-P to Rapid Deployment ELDS: Proprietary Syscor protocol; Rapid Deployment ELDS to IloT cloud network: Cellular
Enclosure	Housing: High density polyethylene (HDPE)
Wiring	6x1 conductor (red, black, white, green, blue, yellow) 20 AWG tinned copper
Weight	42g [1.48oz.]
Mounting	Connect directly to the Rapid Deployment ELDS via 1/2in. NPT port or via cable extension.
Performance Specifications	
Polymer Absorption (PA) Sensors	Each HCD-P contains two PA Sensors for hydrocarbon detection (butane and heavier) upon contact; the probe operates underground and within air, hot and cold water, and ice
Operating Temp.	-35°C to +60°C [-31°F to +140°F]
Product Certifications	
Rapid Deployment ELDS (CSENSE-A310)	<ol style="list-style-type: none"> 1) C US listed E165880 2) Class 1, Division II, groups A,B,C,D 3) T6 4) Emissions <ol style="list-style-type: none"> a. Contains FCC ID: R7LE910NAV2 & QQQBLE112 b. Contains IC: 5131A-LE910N & 5123A-BGTBLE112 5) II 3G DEMOK 16 ATEX 1717X Ex nA IIC T6 Gc