

## The VSmart Module

The SiteSentinel® VSmart uses OPW's multi-drop technology to deliver extensive tank-monitoring capabilities to the largest fuel sites while reducing wiring and installation costs.

The VSmart communicates to compatible tank gauges through a unique wired, wireless or network connection. All digital devices can be multi-dropped directly to a VSmart I.S. Barrier. This capability lowers installation costs by allowing installers to use fewer wires between the VSmart, probes and sensors. The module supports up to 32 924B probes or 8 flex probes per module, and 12 Model 327 VLLD Sensors, 16 probes and 64 IntelliSense Sensors per I.S. Barrier.

Using patented proprietary IntelliSense™ technology for probes and sensors, the VSmart automatically detects the type of device connected to it and sends the information directly from the module to the console for easier programming. With a NEMA 4-rated enclosure, the VSmart Module can be located near the tank area (Note: not in Zone 0, 1 or 2), which will further reduce – or eliminate – direct wiring runs back to the console.

## The VSmart Module Features

Part of the  
**SiteSentinel®**  
family of products



### Multi-drop



### Wireless



### Easy Installation



### Savings

- ◆ Optional single wireless radio antenna installed aboveground for higher-power signal and assurance of best possible connection
- ◆ Interfaces probes, sensors and LLDs to compatible tank gauges console by multidropping through a single I.S. channel
- ◆ Lowers installation costs by eliminating multiple wiring (home runs) for probes, sensors or LLDs back to the console in the building
- ◆ Automatically detects probe, sensor, density float and LLD on any I.S. channel
- ◆ NEMA 4-rated VSmart enclosure
- ◆ Optional wireless modem
- ◆ Maximum of 8 VSmart Modules per SiteSentinel® iSite™ or 7 per Integra 500™ console
- ◆ Maximum of sixteen (16) 924B probes per I.S. Barrier
- ◆ Maximum of 4 AST Flex Probes per I.S. Barrier
- ◆ Maximum Number of Probes: Up to 32 Model 924B probes and/or 8 flex probes per VSmart Module
- ◆ Probe Length: 924B rigid stainless steel; horizontal tanks up to 12 feet (3.7 m); vertical tanks up to 20 feet (6.1 m) or flexible PVDF for AST applications up to 70 feet (21.3 m)
- ◆ Maximum of 64 sensors per I.S. Barrier
- ◆ Maximum of 12 Model 327 VLLD Sensors per I.S. Barrier
- ◆ Maximum of 128 sensors per VSmart Module

## Listings and Certifications



Intertek

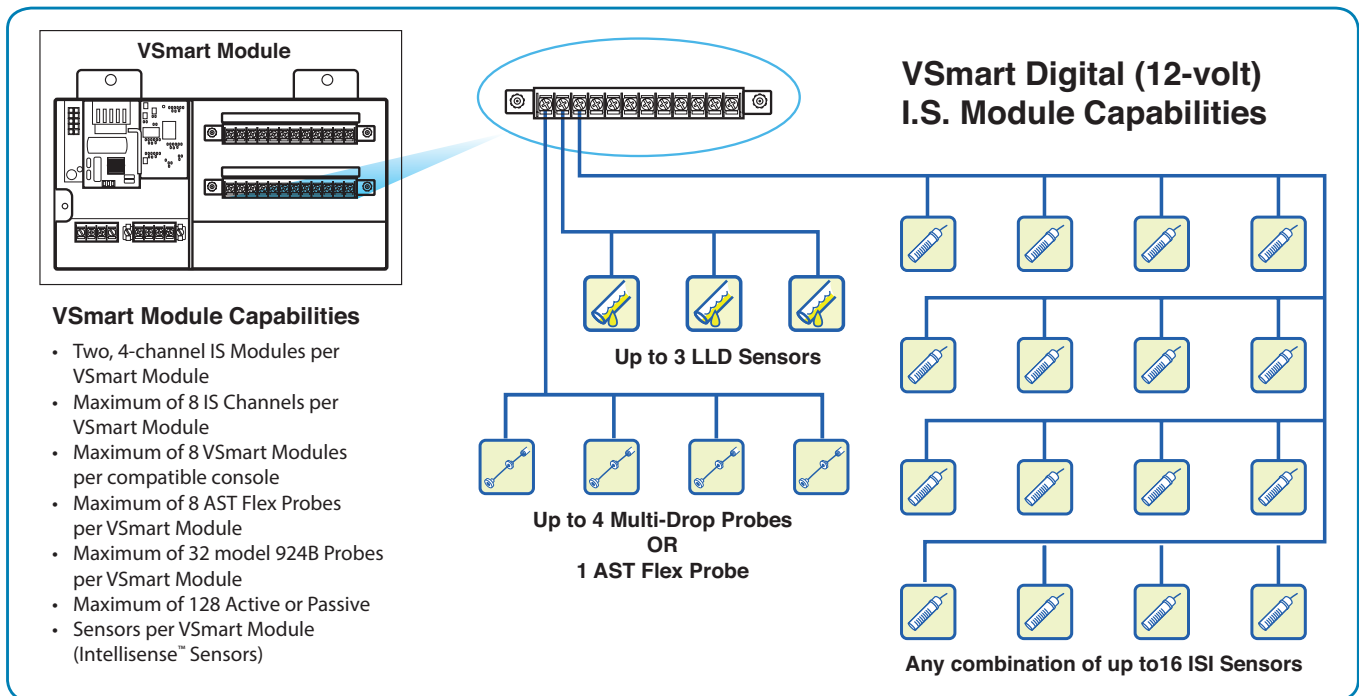


Intertek

## Specifications

- ◆ Probe/sensor location: Class 1, Division 1, Group D; EEx ia IIA T4
- ◆ Typical mounting location outdoor – non-hazardous zone
- ◆ Operating Temperature: -40°F to 158°F (-40°C to 70°C)
- ◆ Data Cable: Belden 88760 (18 AWG) maximum of 1,000 feet (305 m) per barrier position; Belden 88761 (22 AWG) maximum of 500 feet (152 m) per barrier position
- ◆ Dimensions [W x H x D]: 11.3 x 5.6 x 5.8 inches (29 x 14 x 15 cm)
- ◆ Maximum twisted-pair wiring using RS-485: 5,000 feet (1,524 m)
- ◆ Maximum wiring for Ethernet (CAT5/CAT6): 300 feet (91.4 m)
- ◆ Wireless capabilities extend up to 1,500 feet (457 m) maximum with free line-of-site

## VSmart Digital (12-volt) I.S. Module Capabilities



**Note:** The VSmart can handle two (2) four-channel I.S. barriers.

**Intrinsically Safe  
Module Certifications**

