

# Highland Monitoring Systems



## Highland Tank

System	Supply Voltage	Sensor Voltage	Enclosure	Temperature Rating	Contact Rating	Distance Limitations
HTG1	120 VAC	12 VDC, 25mA	NEMA 3R - Outdoor	-40° to 150° F	Form C - 10A @ 120/240 VAC Resistive	5000' for 2 wire sensors
HTG2	120 VAC	12 VDC, 25mA	NEMA 3R - Outdoor	-40° to 150° F	Form C - 10A @ 120/240 VAC Resistive	5000' for 4 wire sensors
HTMS	120 VAC	12 VAC, 6mA	NEMA 3R - Outdoor	-40° to 150° F	Form C - 10A @ 120/240 VAC Resistive	900' for 2 wire sensors 450' for 3 wire sensors

(Based on #14-16 AWG, MTW or THHN wire)

### Highland Monitoring Systems

Highland Tank Single and Multi Channel Monitoring Systems provide a wide range of monitoring capabilities. Both systems employ a modular component approach, carry the UL 913 label and are intrinsically safe.

All system components can be customized for your particular application. Optional Remote Alarm Panels allow for warning indication in remote locations.

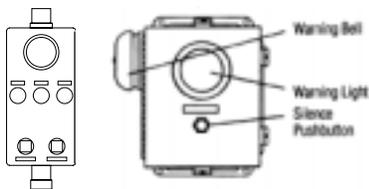
### HTG1

The HTG1 Single Channel System is a basic, single task unit. It can monitor for either high level overflow protection, low level refill indication or liquid only leak detection. The standard panel display includes normal light, warning light and silence button.

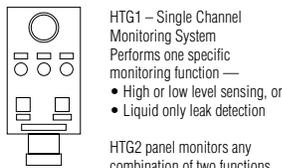
The HTG2 is a 2-channel system that monitors any combination of two functions, including leak detection for water or hydrocarbons.

### HTMS

The HTMS Multi Channel System can perform any combination of leak detection and/or level sensing tasks on one or multiple tanks. The HTMS panel display reflects monitoring system configuration.

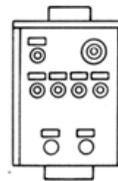


HT - DCX &  
HT - DAX  
Remote Alarm Panels

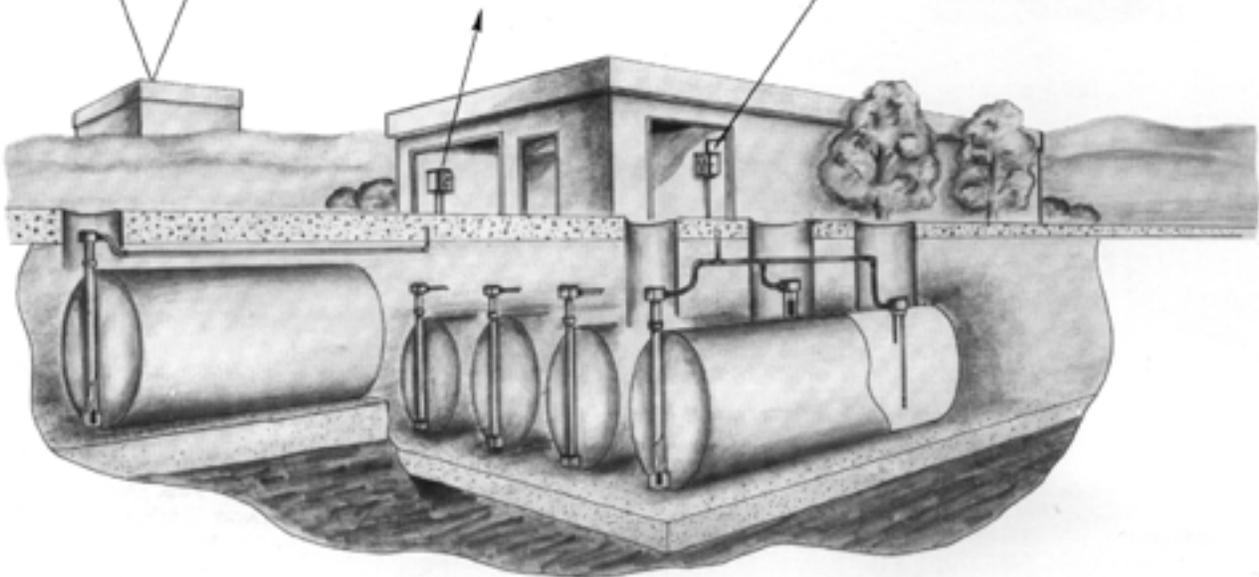


HTG1 - Single Channel Monitoring System  
Performs one specific monitoring function —  
• High or low level sensing, or  
• Liquid only leak detection

HTG2 panel monitors any combination of two functions

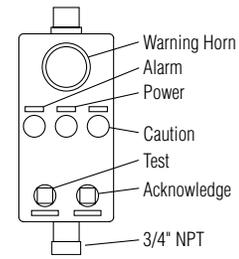
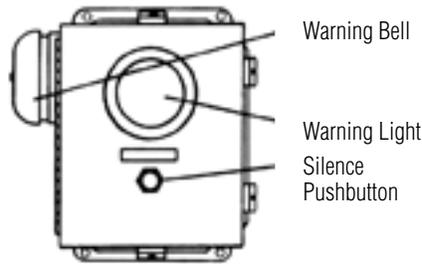


HTMS - Multi-Channel Monitoring System  
Performs multiple monitoring functions on many tanks —  
• High and low level sensing  
• Liquid only leak detection for water or hydrocarbon



## Remote Alarm Panels

The HT-DAX and HT-DCX panels provide remote audible/visible alarm indication on a variety of system functions. Both panels are designed for installation in non-hazardous areas and require only 120 VAC. Each panel includes a warning light, silence button and either an audible buzzer or bell.



### Model HT-DAX

- NEMA 4 Enclosure – Epoxy coated steel for outdoor use
- 98 dB Bell

### Model HT-DCX

- NEMA 3 Enclosure – Polycarbonate for indoor use
- 77–97 dB Horn

## Leak Sensors

HTLP and HTSP sensors can detect leaks in either the annular space or a sump. Both are constructed of chemical resistant plastic, stainless steel, and include a 16' wire extension.



### HTLP

- Liquid only leak detection
- 2-wire sensor
- HTLP-15-1.5" access
- HTLP-2-2" access



### HTSP

- Water and/or liquid hydrocarbon detection
- 3-wire sensor
- HTSP-15-1.5" access
- HTSP-2-2" access

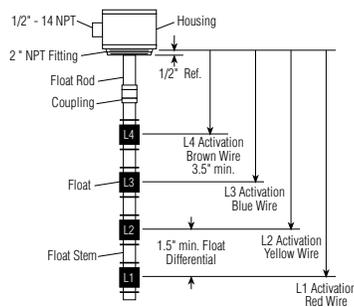
## Product Level Sensors

Model FE sensors are used for product point level sensing of gasoline, diesel fuel, and liquids with specific gravities over 0.6.

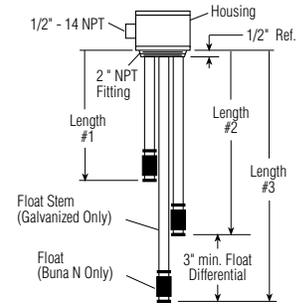
Model FOE sensors are used for both interface level sensing of product with specific gravities less than 0.93, and point level sensing as stated above.

- NEMA 4 housing – Epoxy coated aluminum
- 2" NPT cast iron mounting connection
- Float stem – stainless, galvanized or brass
- Float material – Buna N or stainless steel

### Model FOE

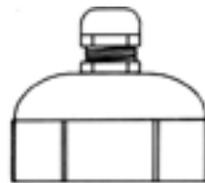


### Model FE



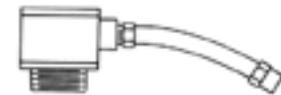
## System Caps

HTSC caps are designed for capping leak detection probe pipes.



### HTSC-A

- Schedule 80 PVC raintight fitting – junction box not included
- 2" NPT Female
- HTSC-15A-1.5" access
- HTSC-2A-2" access



### HTSC-B

- Epoxy coated aluminum – no need for extra junction box
- 2" NPT Male
- Cast iron base with 12" flexible conduit
- HTSC-15B-1.5" access
- HTSC-2B-2" access



One Highland Road  
Stoystown, PA 15563  
814-893-5701  
FAX 814-893-6126

99 West Elizabethtown Road  
Manheim, PA 17545  
717-664-0600  
FAX 717-664-0617

958 19th Street  
Watervliet, NY 12189  
518-273-0801  
FAX 518-273-1365

2700 Patterson Street  
Greensboro, NC 27407  
910-218-0801  
910-218-1292

2001 East Pontiac Street  
Fort Wayne, IN 46803  
219-745-0566  
FAX 219-745-1400