

FLD-TSP10 & FLD-TSP7**Control Panels**

The FLD-TSP10 (10-inch) and FLD-TSP7 (7-inch) are high-performance touchscreen controllers designed for powering and interfacing with Naftosense brand of monitoring modules. Communication with these modules is based on Naftosense long-range ERBUS proprietary bus. These controllers are offered in a IP54/NEMA 3S water-resistant wall-mounted enclosure, to be installed in control rooms and other remote locations where dripping water might be potentially present. The touchscreens are impedance-based and have Gorilla Glass on the touch panel, making for an extremely rugged design for any solution.



The primary use of the controller is to monitor up to three zones with long detection strings for hydrocarbons, alcohols, solvents, or conductive liquids of up to 9800ft (3000 m) each. Each zone on the controller is capable of powering and communicating with up to 25 Naftosense monitoring modules. The communication protocol permits robust and reliable operation even in case of partial failure of the circuit of monitoring modules. Each individual monitoring module can be connected to several independent sensors and provides true multi-leak capability.

The controller provides power and multiplexed communications through the Naftosense ERBUS proprietary bus resulting in a lean communication infrastructure. The controller possesses high-level interfacing to DCS/SCADA as implemented through the RS-485 serial output with Modbus RTU, Modbus TCP, or through dry contacts.

The maximum distance covered with this wired layout (accumulated sensor and jumper cables) is more than 2.3 miles (3.2 km). The optional loopback wiring increases the system reliability in case of cable breaks and shorts. The intuitive password-protected user interface on the touch panel provides flexible configuration and adjustable alarm threshold

Features and Benefits

- Extremely long range of leak detection circuit monitoring
- Modular design for easy assembly and integrating additional components
- Adjustable alarm threshold
- Stand-alone controls for remote installations
- Din rail mounted, low voltage control options to fit in existing control and power enclosures
- Made-to-order options available on all standard controls offerings
- 10-year warranty

FLD-TSP10 & FLD-TSP7**Control Panels****Typical Applications**

- Pipe sections in remote facilities
- Detection of viscous hydrocarbons in substations, pumping stations, etc.
- Detection of leaking fuel from airport hydrant systems, military, and custody transfer installations in harsh outdoor, demanding environmental conditions
- Leak detection in data centers and commercial buildings

Communication Made Easy

Utilize your existing network when integrating a Naftosense leak detecting system. Compatible with any wireless and wired system via a host of standard communication protocols:

- Dry Contact
- Modbus RTU
- Modbus TCP

Technical Information FLD-TSP7 Naftosense Monitoring Panel**Compatible Acquisition Modules**

Model	View	Description
FLD-MXM (all versions)		Long-range multiplexed Monitoring module for monitoring of up to 8 sensing cables or probes for detecting hydrocarbons in both indoor and outdoor environment. Maximum length of sensor string per acquisition module: 400 ft (120 m)
FLD-FBS (all versions)		Long-range monitoring module with flexible wiring options and programmable detection algorithms for monitoring of up to 8 sensors for detecting hydrocarbons in both indoor and outdoor environment. Maximum length of sensor string per acquisition module: 400 ft (120 m)

FLD-TSP10 & FLD-TSP7**Control Panels**

Technical Data	
Fire Rating	Non-flammable, UL508 approved
Ingress Rating	IP54/NEMA 3S - indoor use only
Operating Temperature Range	32°F to 122°F (0°C to 50°C)
Power Supply Input	100-240VAC or 24VDC
Maximum Length of Cable	Accumulated Length of Sensor and Leader Cable: 2 miles (3.2 km)
Power Consumption	18.5W maximum
Mounting	Wall-mounted
Warranty	10 years

Warning! The FLD-TSP10 & FLD-TSP7 monitoring panels are housed in a UL508 approved enclosure and are provided with a cULus Listed display controller. It shall be installed by qualified personnel in accordance with the relevant local regulations for electrical safety.

Product Codes	
FLD-TSP-7	Single-channel monitoring panel for up to 25 Naftosense acquisition modules for detecting liquid leaks, with Modbus RTU/TCP and 2 SPDT relay outputs - wall-mounted, with 7-in HMI and loopback
FLD-TSP-10	Dual-channel monitoring panel for up to 50 Naftosense acquisition modules for detecting liquid leaks, with Modbus RTU/TCP and 4 SPDT relay outputs - wall-mounted, with 10-in HMI and loopback
FLD-TSP-7-19	Single-channel monitoring panel for up to 25 Naftosense acquisition modules for detecting liquid leaks, with Modbus RTU/TCP and 2 SPDT relay outputs - 19-in rack-mounted, with 7-in HMI and loopback
FLD-TSP-12-2X19-x	Redundant multi-channel monitoring panel for up to 200 Naftosense acquisition modules for detecting liquid leaks, with Modbus RTU/TCP and 2 SPDT relay outputs - 19-in rack-mounted, with dual 12-in HMI and automatic redundancy switching