

# ProReact Digital Interface Monitor Module

## Linear Heat Detection

- ✓ Advanced functionality for traditional Digital LHD systems
- ✓ Pinpoints exact location of an incident and responds immediately
- ✓ UL864 10th Edition approved
- ✓ Simultaneous monitoring of up to two zones



### A Unique and Flexible dual zone Digital LHD Interface Monitor Module offering advanced functionality to traditional Digital LHD systems.

A further important addition to Thermocable's world leading family of digital linear heat detection technologies, the *ProReact* Interface Monitor Module is designed to work with the *ProReact* Digital Linear Heat Detection Cable and effectively monitor up to two zones at any one time.

The Digital Interface Monitor Module is unique in being approved to the UL864 10th edition standard, the most recent revision to the UL standard for fire alarm control panels and accessories. It has been designed and tested against the stringent requirements of the 10th edition including new tests to confirm the integrity of the software in the device.

The Digital Interface Monitor Module simultaneously monitors two zones of Digital LHD cable for an alarm or fault condition. If an overheat or fire situation triggers either zone of the Digital LHD cable the Module automatically calculates and displays the distance along the cable, in feet and metres, to the alarm point. The two zones can operate independently of each other or in interlock/coincidence detection mode to eliminate the possibility of false alarms.

The Module is intended to be installed between the Digital Linear Heat Detection cable and a conventional or addressable fire alarm control panel. An RS-485 Modbus RTU output also allows direct connection into a PLC or other process control system.



Certificate No. 5169  
ISO 9001:2015



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# **ProReact** Digital Interface Monitor Module Linear Heat Detection

## Source of the alarm immediately identified by the Module

Thermocable's technologically intelligent Interface Monitor Module allows accurate location of an alarm point along a length of our ProReact Digital Linear Heat Detection cable.

Because of the wide range of applications that Digital LHD cable can be used for, it may not always be possible, or be too time consuming, to locate the exact point along the cable where an alarm has occurred. Connection of the Module to the cable means that should an alarm occur, the distance to the overheat condition is immediately calculated and displayed on the integrated display.

In addition should an alarm be detected, the corresponding alarm output changes state, triggering an alarm at the fire alarm panel. The integrity of the system is guaranteed at multiple levels: a zone fault is triggered if the Linear Heat Detection cable is broken, a ground fault occurs on either zone, power is lost to the Module or the microprocessor malfunctions.



## Benefits

- UL, CE, RoHS approved to meet end user specifications
- Simultaneous monitoring of up-to two zones increases potential applications. For example: pre-alarm on one zone/alarm on the other, fault-tolerant triggering of alarm (both zones must activate before alarm at panel).
- Immediately pinpoints exact location and responds to an incident
- Compatible with Thermocable's ProReact Digital LHD cable
- Can be retro-fitted to existing installations
- Cost effectively increases functionality and performance
- Connects to addressable fire alarm control panels for fast response to faults
- Low installation and maintenance costs reduce total cost of ownership
- Reliability through design, approvals and 3 year warranty

## Features:

- Power indicator, fault and alarm lights for each zone
- Volt-free outputs for fault and alarm, corresponding to each zone
- Can be connected to an industrial process control system using the two-wire RS485 Modbus RTU output
- Built-in sounder for audible annunciation
- Interlock/Coincidence detection eliminates the possibility of false alarms by requiring both LHD cables to trigger before transmitting an alarm

## Typical markets and applications:

- Power generation industries
- Oil and gas industries
- Mines
- Cold storage and industrial freezers
- Floating roof storage tanks
- Tunnels
- Cable trays
- Warehousing



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