

Intelligent Leak Detector System



The Deeter intelligent Leak Detector system comprises a leak detector controller in a DIN-rail mounting enclosure and a set of leak detector sensors in small, floor-mounting ABS enclosures. The controller can identify each sensor and provide information about the location of a leak whenever a leak is detected.

The intelligent leak detector controller has an LCD and three push-button switches to enable the user to access option menus and select from a variety of programmable features. During normal operation the display shows system status or the identity of any leaks. Power to the Controller can be from a mains supply (220-240VAC) or a low-voltage supply (10-24V), either AC or DC.

The controller has a variety of process outputs including two SPDT relays to directly control mains powered pumps, valves or alarms, an open-collector transistor is also provided for connection to a programmable logic controller (PLC), building management system (BMS) or for indirectly driving further valves or pumps via an external relay and finally an RS485 serial communications port for remote monitoring. The relays and transistor output can be independently assigned to respond to any leak or to a leak within a group of sensors. Alternatively, they can be assigned to a fault condition.

Intelligent Leak Sensors are housed in ABS enclosures rated to IP65 and have a pair of stainless steel sensing probes protruding through the underside. Sensors are linked in a daisy-chain configuration using 4-core cable which also provides power to the sensor.

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The maximum number of sensors in a system is 80 and the maximum cable length between sensors is approximately 200m. For cable runs greater than 200m the user can fit an extra sensor in the line to act as a signal repeater.

The intelligent leak detector can be used in conjunction with the deeternet® wireless gateway to provide the user with constant monitoring of all leaks in their system, this system can be set up so that every time a leak is found in the system, alerts can be set to provide notifications via email or SMS of the location of any leaks so that they can be dealt with as quickly as possible. When the deeternet® wireless gateway is used in this way it can monitor up to 200 intelligent leak detector sensors at any one time.

Specification

Controller Dimensions	90mm high x 106mm wide x 58mm deep 35mm DIN rail mounting	Sensor Dimensions	100mm (including cable glands) x 64mm x 40mm high
Sensor Probes	Pair, 5mm long Stainless steel M3 threaded, spaced at 20mm centres	Mains Supply Power Option	210VAC – 250VAC at 15mA
Low Voltage Supply	10VDC-32VDC at 250mA 8VAC-24VAC at 250mA	Mains Supply Fuse	32mA anti-surge, 5x20mm cartridge
Low-voltage Supply Fuse	500mA anti-surge, Omni-Blok® cartridge	Relay Contacts	6A at 250VAC
5V output current limit	50mA	Sensor Supply Current Limit	150mA
Maximum Cable length between sensors	200m	Maximum number of sensors	80 Sensors

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Ordering Information

Description	Ordering Code
Intelligent Leak Detect Controller	DE012-0249
Intelligent Leak Sensor	DE012-0250

All electrical equipment should be installed by a qualified/certified electrician.

The Deeter Group follows a policy of continual development of its products and reserves the right to change specifications and/or features without notice.