

The DEETER Group[®]

LKC-1500 Leak Detector



The LKC-1500 comprises a leak detector controller in a DIN-rail mounting enclosure and up to 1500m of leak sensing cable. The controller is able to detect a leak and indicate its position as a distance along the cable from the controller.

The LKC-1500 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 location of any leaks. Power to the controller can be from a mains supply 210-250VAC, 50Hz (105-130Vac, 60 Hz US version) and can also be powered from 10-24Vac or 12-32Vdc through the low-voltage supply terminals.

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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 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 controller is capable of detecting a broken or improperly terminated sensing cable, relay and transistor outputs can be assigned to respond to a leak or to a fault.

The length of sensing cable that can be used with each controller is between 15m and 1500m and the leak position is measured along this length of cable. The cables are terminated with a 4-pin DIN plug at one end and DIN socket at the other.

A cable with a socket is required to attach the first length of sensing cable to the controller. The wires in this cable are colour-coded to match the terminals on the controller: B for blue or black, Y for yellow, G for green, and R for red.

The LKC-1500 Controller can be used in conjunction with the deeternet[®] Wireless Gateway to provide the user with constant monitoring of their system. This system can be configured so that whenever 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 multiple LKC-1500 controllers at any one time.

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Specification

Controller Dimensions	90mm high x 106mm wide x 58mm deep 35mm DIN rail mounting	Mains Supply Power Option	210VAC – 250VAC at 15mA (UK version) 105Vac – 130Vac at 50mA (US version)
Low Voltage Supply	12 – 32Vdc at 250mA 10 – 24Vac at 250mA	Mains Supply Fuse	100mA anti-surge, 5x20mm cartridge
Low-voltage Supply Fuse	500mA anti-surge, Omni-Blok® cartridge	Relay Contacts	6A at 250VAC
Transistor Output	NPN open-collector, open emitter Maximum collector-emitter voltage, 26Vdc. Maximum current, 100mA	Minimum Sensing Cable Length	15m
Maximum Sensing Cable Length	1500m	Leak Position Accuracy	± 0.5% or ±0.5m, whichever is greater

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Ordering Information

Description	Ordering Code
LKC-1500 Leak Detector Controller	DE012-0272
LKC-1500 Leak Sensing Cable (15m)	DE012-0277
LKC-1500 Leak Sensing Cable (50m)	DE012-0279
LKC-1500 Leak Sensing Cable (100m)	DE012-0280
LKC-1500 Leak Sensing Cable (500m)	DE012-0282
LKC-1500 Leak Sensing Cable (1000m)	DE012-0283
LKC-1500 Leak Sensing Cable (1500m)	DE012-0284
LKC-1500 Interconnecting Cable (2m)	DE012-0274

For custom cable lengths, contact the sales office for advice

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.

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