Multi-point Panel LD-LPD-MPDM



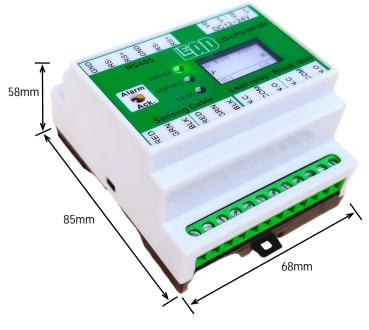


Product Datasheet



Product overview

The LD-LPD-MPDM multi-point lead locating panel, LP-SM lead sensor module, sensing line and related accessories together form a multi-point leak detection system.



LD-LPD-MPDM panel



LP-SM sensor module



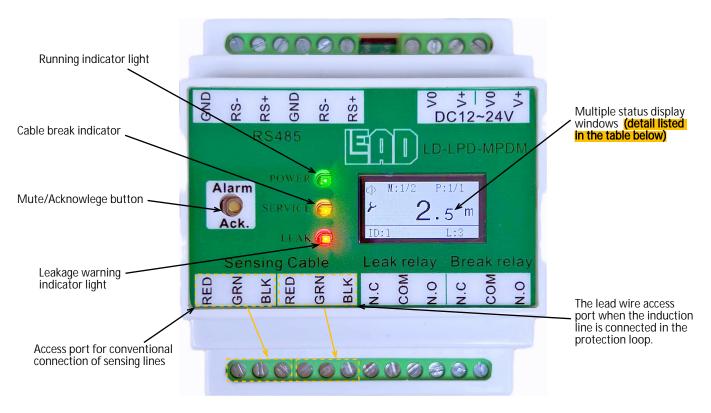
Sensing cable



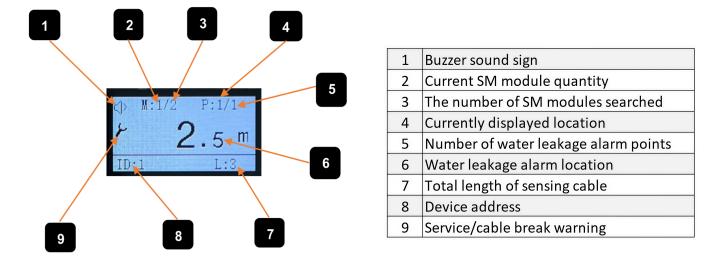
Jumper cable



Function map



LD-LPD-MPDM operation panel introduction



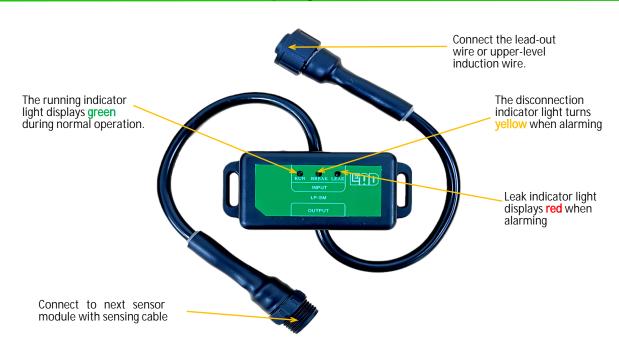
LD-LPD-MPDM liquid leakage detection module LCD display notes



Technical data

Power supply	Voltage: DC 12 ~ 24V Power <5W		
SM sensing line module quantity	Up to 16		
Single length of SM module sensing line	Up to 50 meters		
Total length of sensing wire	Up to 800 meters		
Number of simultaneous alarms at leak locations	Up to 16		
Loop connection	 Conventional connection method. Fail safe loop back. 		
Measurement parameters	SM module online quantity, sensing line length, sensing line breakage, leakage position and quantity.		
Measurement accuracy	± 0.5m		
Alarm response time	<3s		
Relay	1 channel SPDT disconnection alarm output, 1		
	channel SPDT water leakage alarm output.		
	Capacity: 220VAC/1A, 30VDC/1A.		
Buzzer	Minimum 80 dB		
	RS485, the maximum communication distance can		
Communication interface	reach 1200 meters, and the maximum number of		
	nodes can reach 256.		
Programming protocol	Standard Modbus RTU		
Working environment	Temperature: $-20^{\circ}60^{\circ}C$ Humidity: up to		
working environment	95%RH, no condensation.		
Install card	35mm DIN		
Dimension	68mm x 85mm x 58mm (L x W x H)		

LP-SM sensor module display notes





Set up and operate

The system uses LD-LPD-MPDM module and LP-SM sensing line, which can detect liquids such as water, acid, alkali, oil and so on. Up to 16 modules can be connected, each supporting 50-meter sensing line, capable of detecting and displaying 16 water leakage locations at the same time, and providing RS485 and relay alarm signals.

The LD-LPD-MPDM module uses patented circuits and algorithms to accurately locate the leakage position of any loop in the four-core detection line, and can correctly detect and alarm even if two loops are broken.

The module circuit system uses highly sensitive components, which can not only ensure high sensitivity during detection, but also avoid false alarms caused by various external factors. Designed with unique anti-surge protection.

Multi-purpose design

The LD-LPD-MPDM multi-point liquid leakage detection module and the LP-SM Lead senor module are small in size, and all installation and operations can be easily completed without opening the modules.

The multi-point leakage detection system has an alarm mode that automatically resets after the leakage/disconnection alarm is eliminated. The alarm indicator, buzzer, and relay output are also reset accordingly.

Stepless detection sensitivity adjustment; button silencer function.

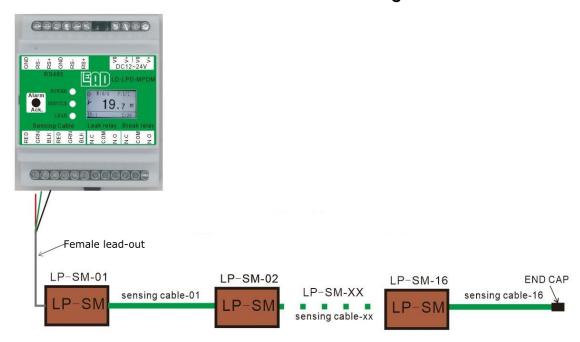
This multi-point liquid leakage detection module is suitable for air conditioning processing equipment, data centres, archives, museums, base stations, semiconductor factories, computer rooms, liquid containers, pump tanks, water pumps, pipelines, pools and other occasions that require leakage monitoring and alarming.

Notes: Other RS485, power supply and relays can be connected according to the port instructions.

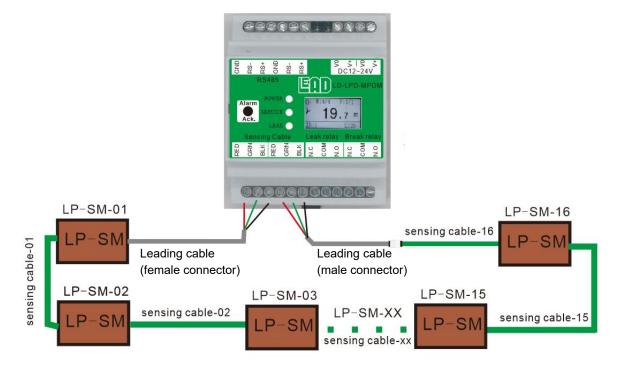


Multi-point leakage detection system composition

* Conventional connection method of sensing cable



Fail safe loop back connection method





Installation details

* The water leakage detection module is installed on the guide rail

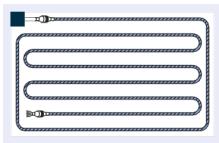
The LD-LPD-MPDM liquid leakage detection module is a small and compact leakage detection equipment. It comes with a 35DIN release valve that is easily stuck on the guide rail and is very convenient to install in a waterproof box or control electrical box.



The LD-LPD-MPDM liquid leakage detection module is not waterproof. If the controller is used in a humid environment for a long time, it is recommended to purchase an additional waterproof box for installation in order to achieve a safe use environment and extend the service life.

When installing the LD-LPD-MPDM liquid leakage detection module, be sure to turn off the power, wire it correctly according to the instructions, and check that it is correct before powering on.

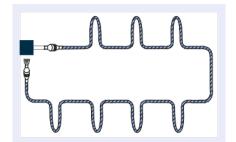
* Schematic diagram of sensing cable layout



Covering the whole area Comprehensive protection for critical areas



Cover edge area
Prevent leakage from immersing or spreading



Cover air-conditioned area Key protection for major leakage sources such as air conditioners



* Schematic diagram of sensing cable layout







Cable holder with sitck-on



Overhead piping



Bundled with floor pedestal



Fixed with glue



Under HVAC downdraft

Cables should be installed away from high-temperature fire sources, strong magnetic fields, and humid and dusty environments. Be careful to avoid scratching the cable sheathwith sharp objects.

Certified product



LD-LPD-MPDM multi-point liquid leakage detection module has been calibrated by CE and CSA and is suitable for non-hazardous areas.

LD-LPD-MPDM multi-point liquid leakage detection module has a free warranty commitment of three years after installation and use.

LEAD product list



Product		Features	Product code
Master panel	155 San	Can connect 500m sensor cable, 100 units of slave panels (LP-LPM, LD-LPD-2RLB, point type sensor). Set the address and sensitivity of the locating panel	LP-LPM
Detection panel		Detect the leak location Acceptable sensing cable length: up to 800m	LD-LPD-2RLB
		Collect point type sensor leakage signals Quantity of point type sensors connected: up to 12	LM-D12
	TO THE PARTY OF TH	Panel: Detect the multiple leak location with LP-SM Acceptable sensing cable length: up to 800m Senor module: Maximum 50m sensing cable per each module. Maximum 16 sensor modules LP-SM for each LD-LPD-MPDM	LD-LPD-MPDM & LP-SM
	0 Hill 0 O	Detect liquid leak and display the current system status	LP-NP
Sensing cable	O	Water sensing cable	WS-LXXX
		Oil sensing cable	LD-LLW5000-LXXX
		Chemical sensing cable	CS-LXXX
		Organic solvent sensing cable	LD-LLW5001-LXXX
	X	Cotton base water sensing cable	LD-LLW1002-LXXX
Point type sensor		Protection class: IP65	LP-LGM
		Fully sealed and waterproof structure More flexible. Protection class: IP65	LD-SDS-RO/485

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