



ADDRESSABLE WATER LEAK DETECTION SYSTEM

Product Guide



General Description:-

This water leak detection panel acts as a master in the system. The interface modules which act as a slave, communicate with the master using Rs-485. The Master therein uses Modbus to communicate with the PC-side software of the client. The sensor cables are typically used to detect the water leak in critical rooms, to monitor leakage and indicate it on the Slave. The Slave will thereby extend the command to the Master and give an alarm. The Interface Modules are locally placed in the rooms, and shall be connected to the Master Panel through standard Cable. The panel activates common sounder.

Features:-

- Monitor up to 32 Modules
- Not only detects leak, also exact location of leak can be determined.
- Triggers individual Relay output for Alarm and fault and activates common Fire & hooter relays.
- Can access the panel remotely via MODBUS RTU protocol through any BMS software
- Location mapping names can be configured via keypad
- Log an extensive variety of events and alarms

Power		100-240VAC mA max @ 250
Included Accessories		230V AC 5A Power Cord 2 meters
Inputs	Module	Compatible with AWLDM-01 Slave modules
	Connection	2 or 4 core 1.5 sq.mm shielded twisted cable
	Maximum Length	800 m from Master panel to last slave module
	Response time	minimum 250msec / module. (8 sec for 32 modules)
	Accuracy	+/- 1.0 m accuracy - minimum (+/- 3% of cable length maximum)
Outputs	LED Indications	System healthy GreenLED
		Alarm Red LED
		Fault Red LED
		Service Red LED
	Relays	Common Alarm, Fault & fire relay, Programmable relays
Communication Ports	Port 01	EIA485 Optically Isolated. Use 1.5 Sq.mm shielded braid cable
	Port 02	9600 baud Default No parity bits stop bit, Optically Isolated
	Port 03	50000 bps ; For firmware update
Protocols	EIA-485 (Port -1)	Modbus protocol between Slave monitor modules
	EIA-485 (Port -2)	MODBUS RTU between Master panel & BMS gateway
Alarm Notification	Audible Alarm	Inbuilt buzzer DBA m (3.3ft) 80 @ 1 ; External hooter (not included)
	Visible Alarm	Alarm indicated on LCD screen and through BMS after integration
Logging Capabilities	Event Log	Last events 100
Log in Security	Tack tile Keypad	No password required to view controller status and data . Administrator password limits access to Log events clear .
Front Panel Interface	Display	4 x 20 character LCD Display
	Keypad	Membrane keypad
Operating Environment	Temperature	0 to 50 Deg C (Deg to Deg F) 32 122
	Humidity	5% to 95% RH non condensing
	Altitude	15,000ft(4,572m) max.
Storage Environment		20 (-4 158 Deg to 70 Deg C Deg Deg F)
Dimensions		250 mm(W) x350mm(H) x10 mm(D)
Weight		5.0kgs
Mounting Type		Type 1 wall mount enclosure

* Product improvement is a continuous feature. specification listed above are therefore subject to revision without notice.

General Description:-

Addressable water leak Detection module AWLDM-01 is a embedded based intelligent system. The modules are addressable and can be connected as daisy chain. The module can be powered using an separate Power supply provided in the enclosure. 2X1.5mm Twisted Shield cable is recommended between Master Panel to all modules in daisy chain topology.

The Interface Modules are locally placed in the rooms, and shall be connected to the Master Panel through standard RS485 Cable. The panel activates common sounder. Testing procedure involves the cable to be in contact with water at least 2 inches to give correct reading and to test the relay operation. The Panel sounds the Alarms, and notifies the BMS system.

Salient Features:-

- Operates on 12VDC / Optional 230VAC
- Has potential free output and LED indication.
- Displays distance to leak location in metres.
- Indicates cable break condition.
- Maximum length of linear leak detection cable is 99 metres.
- Can detect leak anywhere along the entire cable length.
- Built in audio sounder and common hooter output.
- Easy to install and operate.
- Self-restoring.
- Soft membrane switches.
- Communicates with the Master using RS485.



Interface Module

Specification:-

Input voltage	: 12V DC, 200 mA (+/- 2%) / Optional 230VAC
Communication	: RS485 Modbus protocol.
Communication wire	: Use 1.5 Sq.mm Shielded /Twisted braid copper cable
Display	: LED Display
Response time	: Minimum 5sec from leak sense to generate alarm in module
Indication	: Audible buzzer during alarm condition, LED indication
Sensor cable	: AWLDC-01 sensor cable
Maximum length	: 100m per module
Relay Output	: Common relay output
Audible	: Sounder for Alarm
Working Temperature	: 10 to 50 Deg C
Construction	: ABS Plastic
Size (HXWXD)	: 108mm X 102mm X 54mm
Certifications	: CE

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Features -:

- * Water Leak Detection cable consists off our conductors, two water sensitive and two data.
- * The cable is restorable and corrosion resistant and does not require replacement after being wet.
- * Cable can be installed in the path of a potential water leak
- * Each end of the cable is factory constructed end of line circuit to make installation of leak detection systems quick and easy



Specifications:

CARRIER MATERIAL	: Steel 4*0.5 +/- 0.008mm
OUTSIDE MATERIAL	: FLUOROPOLYMER
CONDUCTOR MATERIAL	: COPPER 7*0.2
OUTSIDE MATERIAL & SPEC	: PVC & RESISTANCE 12.5 -13.5 R / 1M
CONDUCTOR MATERIAL	: COPPER 1*0.37
OUTSIDE MATERIAL & SPEC	: PVC
OVERALL DIAMETER	: 6MM
COLOUR	: BLACK *2 , RED,YELLOW/BLUE
CABLE WEIGHT	: 4KG /100M

NOTE:

Cable lengths : It comes in multiple of 5 mtrs,10mtrs, 15mtrs, 20mtrs

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