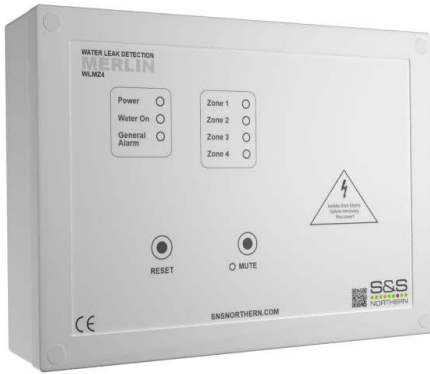# WLMZ4 4 Zone Multi-Zone Water Leak Detection

Product Overview:

The largest of the WLMZ range, the Merlin WLMZ4 can be used with up to 12 WLM controllers in a number of combinations.

The Merlin WLMZ4 can be used in many commercial, residential & light industrial applications that require multi-zone water leak detection and monitoring through a central controller. It can be used with up to 12 Merlin Water Leak Detection Monitors (3 monitors per zone terminal) for detecting water leaks. The controller panel can be integrated with, but not limited to, a BMS (building management system) and external alarms.
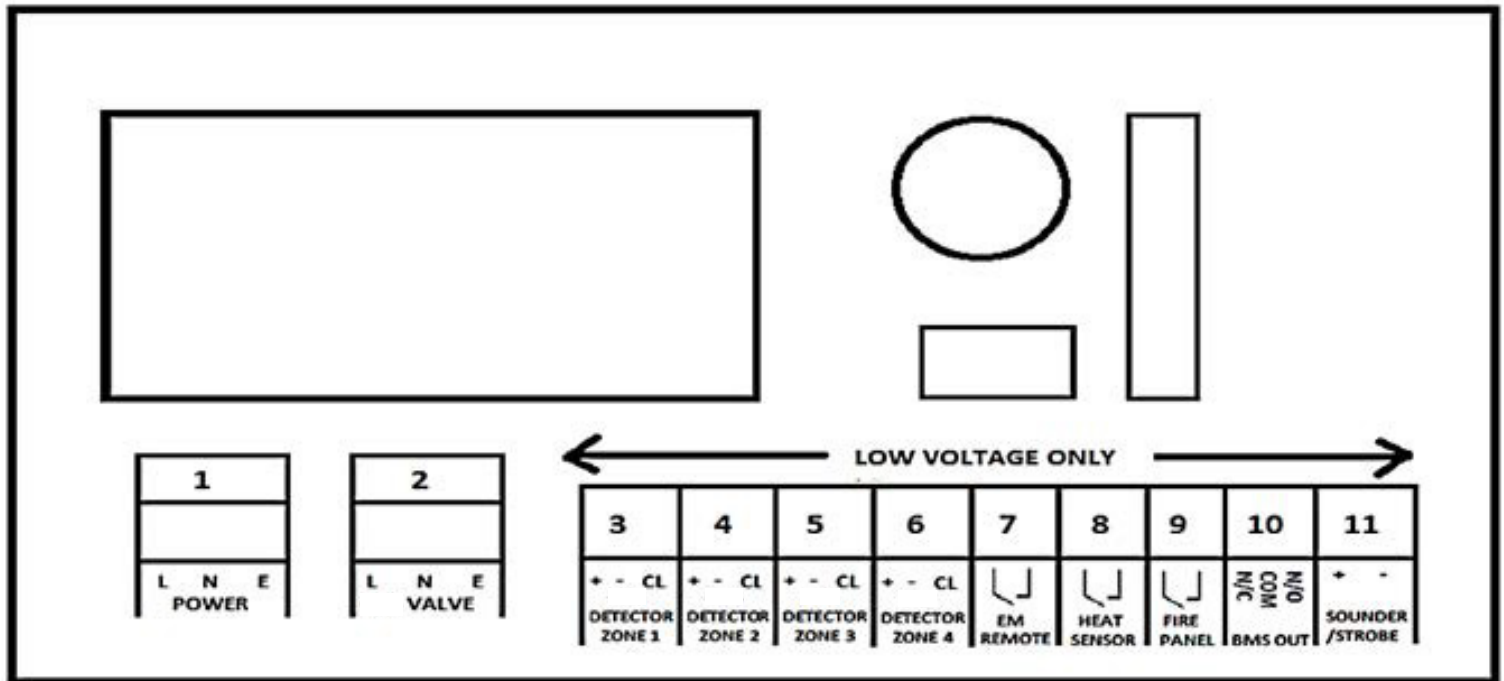
The control panel should be located in an accessible area for both status observation and alarm purposes.

Technical Specifications

General	
Model:	MerlinWLMZ4
Use:	Indoor, Safe Areas (not to be used in explosive atmospheres)
Indicators	LED
Mounting	Wall Mounting
Max. Power Consumption	20W Max (Full Load)
Power Voltage Input Range	230VAC
Water Valve Output Range	230VAC
I/Os	2x 24VDC Outputs & 3x Open/Close Switches
BMS Terminal	Volt Free Dry Contact (Normally Closed / Common / Normally Open) 3A Max
Relay(s)	2x 230VDC 10A (Latching) Configurable Normally Open or Normally Closed (Switch)
Terminal Wire Ratings	Copper 18AWG (0.75mm2) Min. 24 x Screw Terminals
Fuse	3.15A
Dimensions (H x W x D)	180 x 255 x 77 mm/ 7.08 x 10.03 x 3"
Unit Weight (Approx.)	1.1kg / 38.8oZ
Housing Material	Polylac - PA765
Ingress Protection	IP65 (Pre-Installation)
Storage Conditions	Dry. Cool. Flat
Operating Conditions	-10 ~ 50ºC / 14 ~ 122ºF 30 ~ 80% rh
Compliance	EN 61326-1 / BS EN IEC 61010-1

WLMZ4 PCB Overview

POWER / LINE IN

100-240vac mains power supplied to the [POWER/LINE IN] connector using a 3-core cable and fused at 3A. On connecting the mains supply to the panel the power LED indicator will light up – this is located on the front cover.

VALVE OUT

100-240vac electrical power output from the [VALVE OUT] connector using a 3 core cable can be connected to a water solenoid valve which can shut the water supply on alarm status. Refer to your valve manual for more information.

WATER LEAK MONITORS (ZONES 1-4)

24vdc power supply to WLM water leak monitors are wired to [DETECTOR ZONE] terminals. For more information, see section: Wiring your detector.

EM STOP

Open/close connections for external shut-off buttons. If using multiple shut off buttons, wire in parallel.

HEAT SENSOR

Open/close connections for heat sensors/thermal links.

BMS OUTPUT

Volt free connections are available on the board for Building Management Systems.

This is a relay that changes state in alarm or when the gas line is on/off and can be used in conjunction with the 24vdc output and other external relays that affect other devices and controls such as purge fans and audible alarms etc.

FIRE PANEL Open/close connections for fire alarms/panels.

SOUNDER-STROBE 24vdc connections for an external sounder alarm / strobe lighting to activate on alarm.