OGS
OCEANIA GAS SAFETY

Merlin WLM System
Water Leak Detection

WATER LEAK MONITOR

Mute

Reset

○ Status

◉ Water On

◉ Fault

◉ Alarm

UK CA

S&S NORTHERN

230V or 24V Power Input

230V or 24V Water Solenoid Valve Isolation Capabilities

Standalone or Can Be Used With WLMZ Range For Multi-Zone

LED Status Indicator

Wiring/Cable Fault Indicator

BMS/BAS Communications

Used With OGS WLM Sensing Cable Or WLM Probes

In-Built Audible Alarm

Product Overview

The Merlin WLM system is the Oceania Gas Safety permanent water leak detection system aimed towards commercial properties and residential apartment blocks. The Merlin WLM can be used standalone or part of a larger multi-zone detection system and comes with a clear LED status display.

Operation Overview

Press reset button to enable water supply. Solenoid valve relay will switch over and the green LED illuminates.

On water leak detection the red LED illuminates and buzzer sounds. Solenoid valve and BMS relay switch, strobe relay closes. The mute button toggles audible alarm (buzzer and strobe). Clicking the reset button will reinstate power to the solenoid valve & open water supply.

On fault detection, such as incorrect wiring or damaged cables, the BMS relay will switch over and the amber LED illuminates. The buzzer activates for 3 seconds with no strobe and the water solenoid valve remains on. Once the fault has cleared, the BMS relay will switch and amber LED will clear.

Compatability

Sensing 4-Core
WLMFC
4-Core
Plugable Cable
Fault Detection

Sensing Cable
WLMC
2-Core
Pre-Defined Length

Puck/Probe
WLMC Probe
Sensing Puck / Probe

Solenoids
GSW

Normally Open
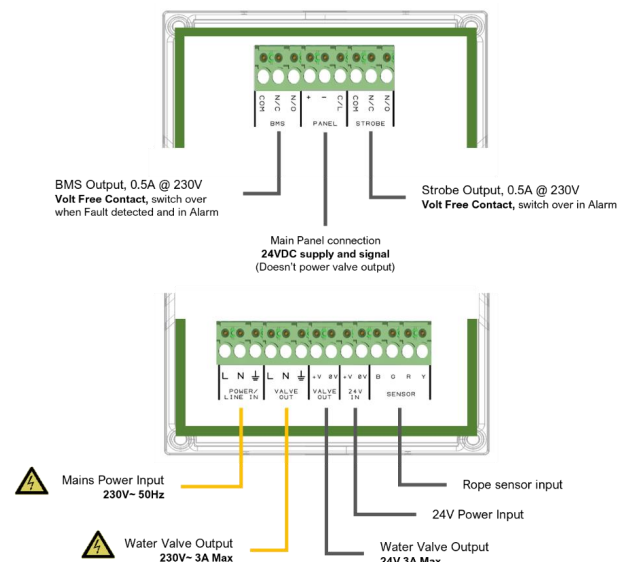Normally Closed
24V AC / DC
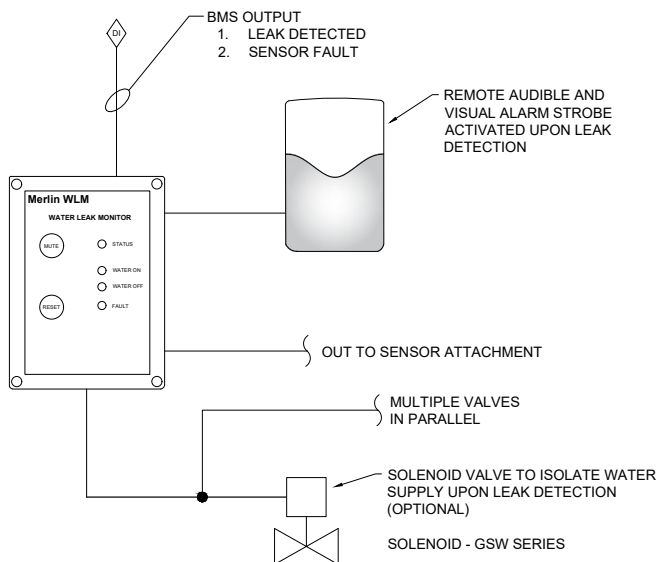230V AC

Sensitivity

The potentiometer on the circuit board labelled [SENS] can be used to set the sensitivity of the rope sensor.

SENS

MIN   MAX

Technical Specifications

General Specification	Enclosure Dimensions	151 x 111 x 50mm (5.95 x 4.37 x 1.97")
	Enclosure Material	ABS PA765 (Flame Rating UL94 V-1)
	Weight	TBC
	Approvals	UKCA, ROHS, complies with UL61010
	Display	Single tri-colour LED for Water On, Fault and Alarm
	Buttons	Mute and Reset push buttons mounted under the label
	Audible Indicator	Internal Buzzer
Electrical	Power Supply	230VAC and 24VAC/DC
	Water Solenoid Valve Output	Volt free NC/COM/NO, max 3A @ 230V
	BMS Relay Output	Volt free NC/COM/NO, max 3A @ 230V
	Strobe Relay Output	Volt free NO/COM, max 3A @ 230V
LED Indicators	Power On (RED)	Power LED as part of S&S logo
	Water On	Green
	Fault	Amber
	Alarm	Red
Installation Options	Pententiometer	Adjustable alarm point
User Controls	Reset and Mute	2 momentary push buttons

Controller Capabilities

BMS OUTPUT
1. LEAK DETECTED
2. SENSOR FAULT

REMOTE AUDIBLE AND VISUAL ALARM STROBE ACTIVATED UPON LEAK DETECTION

Merlin WLM
WATER LEAK MONITOR
MUTE
RESET
STATUS
WATER ON
WATER OFF
FAULT

OUT TO SENSOR ATTACHMENT

MULTIPLE VALVES IN PARALLEL

SOLENOID VALVE TO ISOLATE WATER SUPPLY UPON LEAK DETECTION (OPTIONAL)

SOLENOID - GSW SERIES

BMS Output, 0.5A @ 230V **Volt Free Contact,** switch over when Fault detected and in Alarm

Strobe Output, 0.5A @ 230V **Volt Free Contact,** switch over in Alarm

Main Panel connection **24VDC supply and signal** (Doesn't power valve output)

Mains Power Input **230V~ 50Hz**

Water Valve Output **230V~ 3A Max**

Water Valve Output **24V 3A Max**

24V Power Input

Rope sensor input

Attachments

Attachment Description	Part Code	Length (M)	Fault Detection (Y/N)
Detection Ropes - Pre Defined Lengths 2-Core 2M			
Sensing Cable w/ 2M Lead Cable	WLMC2	2	N
5M Sensing Cable w/ 2M Lead Cable	WLMC5	5	N
10M Sensing Cable w/ 2M Lead Cable	WLMC10	10	N
15M Sensing Cable w/ 2M Lead Cable	WLMC15	15	N
25M Sensing Cable w/ 2M Lead Cable	WLMC25	25	N
Custom Pre-Defined Length Call OGS For Pricing	WLMC**	xx	N
Attachment Description	**Part Code**	**Length (M)**	**Fault Detection (Y/N)**
Detection Ropes - Pluggable 4-Core With Fault Detection			
5M 4-Core Sensing Cable	WLMFC5	5	Y
10M 4-Core Sensing Cable	WLMFC10	10	Y
20M 4-Core Sensing Cable	WLMFC20	20	Y
50M 4-Core Sensing Cable	WLMFC50	50	Y
100M 4-Core Sensing Cable	WLMFC100	100	Y
Attachment Description	**Part Code**		
Detection Probe / Puck			
Merlin Water Leak Puck / Probe	WLMC Probe		