

RKIT Flood Warning System

Flood Warning System With Capacitive Sensor

- **High Reliability With No Moving Parts**
- **Visual And Audible Alert**
- **Designed To Provide Early Warning Of Potential Flooding**
- **Text Message Alert Option Available**
- **Radio Link Available For Remote Sensor Installation up to 16km**
- **80db Audible Buzzer**
- **Low Standby Current 2.3w**
- **230vac, 110-230vac, and 24vdc Versions Available**

The RKIT Flood Level Warning Kit provides a visible and audible high level alert using a capacitive water sensor.

A power switch enables or disables the system and a green power lamp confirms that the system is active. Upon the sensor becoming immersed in water a flashing red warning light alerts the user to a potential flood event and is accompanied by a repeating buzzer.

The capacitive sensor can be mounted onto any outdoor structure such as an outside wall or steps, or a point near a water course to provide an early warning of a potential flood event. Early warning is intended to maximise the time available to install flood defences, activate drainage pump systems, move vehicles and objects of value.

The sensor is encapsulated in plastic with no moving parts and will survive all weather and long term immersion. Water detection is achieved by sensing the capacitance of a body of water surrounding the sensor, which can only be triggered by immersion and will not false alarm in rain or when splashed.



The standard 230VAC versions are suited to most permanent buildings while the 110VAC versions are intended for use on temporary worksites and are ideal for monitoring excavations. An extra-low-voltage 12-24VDC version is intended for marine and portable use and incorporates a 5 second time delay before triggering the alarm, making it suitable for moving water in bilges and compartments.

Remote warning options are available on request including VHF radio link up to 16km range or cellular GSM text alert.

Mains powered RKIT installations should be supplied by a power located situated above the warning level of the sensor. A green Power-On light remains lit at all times to indicate a valid power supply.

CODE	CABLE LENGTH	OPERATING VOLTAGE	MAXIMUM CABLE LENGTH
RKIT1	10m	230VAC	1000m
RKIT2	40cm		
RKIT3	10m	110-230VAC	100m
RKIT4	40cm		
RKIT5	10m	12-24VDC	
RKIT6	40cm		

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Capacitive Sensor Technical Details			
	230VAC System	110-230VAC System	24VDC System
Physical			
Dimensions	93mm(W) x 31mm(D) x 250mm(H)		
Weight	240g		
Material - Body	Polypropylene		
Mounting	Vertical, Surface Mounted, 2 screw holes		
Max Operating Pressure	0.2 Bar		
Electrical			
Power Supply	230VAC	24VDC	24VDC
Power Consumption	10mA	20mA	200mA
Output	230VAC 10A(AC1) 4A(AC3)	110VAC 10A(AC1) 4A(AC3)	12-24VDC 10A
Dielectric Strength	1500V		
Level Sensing	Capacitive (No electrical contact with sensed fluid)		
Environmental Limits			
Storage Temperature	-20°C to + 80°C		
Operating Temperature	Up to 50°C		
Ingress Protection	IP68 Suitable for continuous immersion		
Maximum Immersion Depth	2m		

Display Unit Technical Details			
	230VAC	110-230VAC	24VDC
Physical			
Dimensions	110mm(W) x 100mm(D) x 180mm(H) excluding cable glands		
Weight	200g		
Material - Body	Polystyrene (HIPS)		
Mounting	Vertical, Surface Mounted, 4 screw holes		
Alarm	Visual and Sounder 80db		
Electrical			
Power Supply	230VAC	110-230VAC	24VDC
Power Consumption	25mA (35mA including sensor)	25mA (35mA including sensor)	25mA (35mA including sensor)
Electrical Class	Class 1		
Environmental Limits			
Storage Temperature	-20°C to + 80°C		
Operating Temperature	Up to 45°C		
Ingress Protection	IP65 Splash resistant		
Maximum Immersion Depth	2m		

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