

Above: sr2 radio transmitter

The 2-Zone Flood Alarm is a radio transmitter connected to two highly responsive flood detection cables. These cables can be run along key areas enabling rapid notification of water leakage before serious damage can be done.

The flood cable consists of eight cores wrapped around a central strain relief plastic core to provide some rigidity. Of the eight cores, two are the conductors. These are uninsulated copper so, if the cable is wetted, they short and provide an alarm signal. The cable is sheathed in a black plastic overbraid to keep the cores in place and to prevent the conductors shorting on any metal surfaces the cable may run over.

Terminating in a connection box, the flood cable is then wired into the transmitter body using normal 2-core signal cable. This allows the transmitter to be located in a good radio position without running the specialist cable down walls or along floors which do not require flood monitoring. The signal cables are connected to the transmitter using 2-pin Lemo plugs.

When the flood cable is shorted by water, the transmitter unit immediately sends a change of state signal six times to the receiving equipment. This multiple transmission is to ensure the signal is received straight away. On the Radiolog software, the alarm will immediately appear on the live data view. The transmitter then checks the state of the flood cable and retransmits its current state back to the software.

Optionally, the Radiolog system can also be fitted with an alarm relay which triggers an autodialler, for out of hours instant notification via phone message or SMS, or a software add-in can send email/SMS notifications.

The obvious inherent advantages of the Flood Alarm are low installation costs with a minimal wiring requirement. Each sensor is powered by its own internal battery, which lasts 18 months and is easily replaced. A "battery low" indication is displayed on the software, warning of the requirement for battery change prior to complete power loss. A failure in transmission is also flagged by the software.

The 2-Zone Flood Alarm comprises an r12000 transmitter body fitted with two input channels, 2 x 5m flood cables as standard, plus 2 x 5m connecting cables to 2 x flood cable connection boxes. Longer flood cables are available – simply specify the length required when asking for a quote

2 Zone Flood Alarm

Product Code RL2002-xxx.xx*
Series Flood Alarm
(Not available in US**)

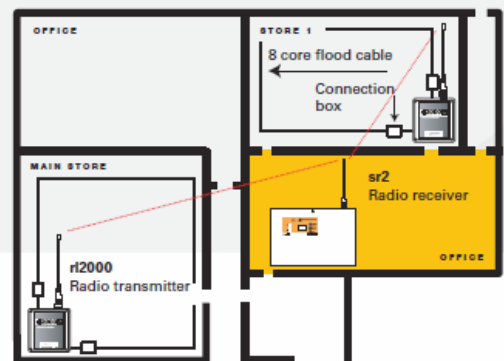
Typical Applications
Monitoring in:
° Flood detection
° Condensation detection
° Fridge/freezer failure detection

Instrument
Dimensions: 110 x 67 x 23 mm
Weight: 65 grams
Power Supply: 3.6V AA Lithium battery, typical life 18 months
Case Material(s): ABS
Operating Temperature Range: 10°C...30°C
(Temperature compensated range)
Input Channels: 2

Communications & software
PC/Logger
Interface: USB A /USB mini-B
Software: 32bit Windows
Minimum O/S: Windows 2000, Windows XP, Windows NT

Radio
*Radio Frequency: 434.075MHz
433.920MHz**
433.875 - 434.650MHz**
in 25KHz increments
Radio Power: 10 mW
Radio Range: 3 km over open ground

Accessories
Cable 5m length (standard) or as required
Nominal 8mm diameter



r12000: Radio transmitter that sends signals to the sr2