

# Bund Alarm

The **BM** series is designed to be mounted to a vertical or horizontal surface of the bund or outer safety tank of a storage tank system and to indicate any leakage or liquid ingress into the bund.

The attachment to the side is effected by two strips of hook and eye tape which allows for any convex curvature of the tank outer surface.

Essentially the system is a two part unit consisting of:-

- a) A float switch with a pneumatic lifter mechanism which is fastened to the side or bottom of the bund.
- b) An indicator unit which contains a battery, an LED leakage alarm indicator and a press button to test and actuate the system.



The **BM** has, in addition to the button that actuates a lifter mechanism on the float switch which detects liquid in the bund, an electrical push-to-close switch. The purpose of the switch is to interrupt the circuit to the warning lamp until pressed. Thus, in the event of a leakage into the bund the warning lamp will light **only** when the switch is pressed enabling the system to be interrogated thus minimising battery drain.

The entire system, inclusive of the battery, can be checked by depressing the button which actuates the float switch whilst simultaneously depressing the switch to enable the LED warning lamp to illuminate. This procedure should be used to check the battery.

The two parts of the system a) and b) above are joined by a length of flexible tube, which serves to both carry the electrical wires between the float switch and the indicator unit and provide a pneumatic link between the two. This tube cannot be shortened after manufacture but it can lie in the bund in any configuration without detriment to the system operation.

## Specifications:

LED	8.5ma hyperbright 5mmØ 150 m candela (approx) 60° View angle
Battery	PP3 Alkaline cell. 9V
Length of electro-pneumatic cable	2 metres (BM/02) or 4 metres (BM/03)
Indicator Unit	IP 66
Float Switch	IP 65
Battery Life (passive)	5 years
Battery Life (alarming)	168 hours approx.
Adhesive	Polyethylene/PVC 3M VHB 4936 double-sided tape
Pneumatic float Lift life	In excess of 0.3 million cycles
Temperature	-10°C to +50°C

