

Peace of Mind

All New!

Using a low cost prepayment tariff on the GSM (mobile) phone network, the all new Mobilarm boat monitoring system can monitor every aspect of a boat's condition 24 hours a day, 7 days a week. It communicates that information as a message directly to the owner or his local agent on his mobile phone leaving him to contact the appropriate authority depending on the problem.

The Mobilarm module can be used on every size of vessel right down to a small yacht or motorboat moored away from Marinas giving total peace of mind with very low running costs.

Via the GSM phone network, the on board alarms are used to monitor key points on the boat, including any specific requirement there might be. Most items can be put under alarm.

Access to the boat through hatches or doors, switching power on and off, the state of the batteries, bilge pump operation, fuel and water levels, can all be monitored by Mobilarm to give the owner, his agent or skipper complete peace of mind when away from the vessel.

An 'Alarm' is not wailing sirens or flashing lights although Mobilarm is able to drive both of these if needed. The alarms are SMS messages which are sent to a designated mobile phone. The SMS message will appear on the owner's or skipper's mobile phone, warning of the intrusion or whatever problem there is on the boat. The owner, agent or skipper has complete control of the situation and can decide what action needs to be taken and contact the appropriate authorities if necessary.

If the boat is moved the Mobilarm system provides the GSM network cell location to narrow the search area to within a kilometer.

A simple, secure authorisation procedure allows owners to give access to the boat to an agent, skipper, family or friend from their own mobile phone.



mobilarm
www.mobilarm.co.uk

Product Information

Supply

The unit operates from a nominal 12 or 24 Volt DC supply. Typically it consumes 10 mA which rises to 250 mA when charging the phone battery to give an average consumption of approximately 20 mA. The supply is internally fused at 500 mA.

Size

The unit measures approximately 120 mm (5") wide x 140 mm (6") high x 50 mm (2") deep and is wall mounted. The unit should be mounted well above the water line and clear of large metal objects to provide a good signal.

Output Circuits

The alarm output can directly drive a circuit requiring up to 5 A at a nominal 24 Volts. This circuit automatically switches off after 20 minutes. The auxiliary output can directly drive a circuit requiring up to 5 A at a nominal 24 Volts. The two outputs share a 5 A fuse.

Inputs

Connect normally closed magnetic proximity or pressure mat sensors in series to provide the alarm loop across the alarm terminals. A PIR detector can be used but must be powered directly from the supply and its output must drive toward the positive rail when movement is detected. The PIR output must be connected to a point in the alarm loop to cause an alarm on detection of movement. An alarm notification is only sent if the unit is set in the alarm mode.

The tamper alarm loop must form a closed loop across the tamper terminals. The tamper wires should run as closed loops through the wiring to the detectors. Any short to the alarm circuit will cause either an alarm or a tamper alarm. Any break in the tamper loop will cause a tamper alarm. A tamper alarm will be notified whether the alarm is set or not. A timer on the tamper alarm only allows further notification after 20 minutes to minimise the annoyance of repeated alarms. Removing the phone or disturbing the communications plug operates an internal micro-switch producing a tamper alarm.



Commands

The commands below are some of the commands of the unit as supplied. Commands can be customised by the user.

SET or CLEAR ALARM changes the alarm notification mode so intruders are notified or not.

ALARM STATUS queries the state of the unit.

PHONE2 or PHONE3. Sending either message followed by a mobile phone number gives access to the system from the mobile phone with this number.

NOTIFY - Sending this message followed by a mobile phone or pager number makes the unit send all alarm (and tamper etc) notifications to that mobile phone or pager.

WHERE obtains information on the location of the phone. This is not as good as a GPS location but can identify the cell the phone is using and therefore its position typically to within a kilometer.

LOW BATT ON / OFF turns notification of low battery warning on / off.

PASSWORD - Sending this message followed by the current password gives any mobile phone access to the unit by placing the calling phone's number in location 1 and allowing it to be subsequently recognised. When the unit is new and has no notify number set this will be automatically set to the same number the first time the PASSWORD command is used with the current password.

Using PASSWORD followed by the current password and a new word changes the current password to the new word entered.

BELL ON turns on the bell circuit. After 20 minutes this circuit will automatically switch off.

BELL OFF turns off the bell circuit.

AUX ON/OFF turns the auxiliary circuit on and off.

VOLTS returns the value of the supply voltage indicating the state of charge of the battery.

CREDIT returns the outstanding credit available to the pre-payment phone with the unit.

Represented by

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The published specification is subject to change without notice as we operate a policy of continuous improvement.