Water detector with float sensor for level measurement with alarm transmission

CM4300FS
Mobeye WaterGuard

The Mobeye WaterGuard-FS informs contacts when the water level rises or falls. The device consists of a water float sensor and a compact communication box. By fixing the sensor in a horizontal position at the critical water level, it will be closed (when the water rises) or opened (when the water level falls). This is followed by an alarm message. The device is fully battery powered, or uses external power. The built-in communication module can connect to the 4G LTE-M and the 2G network.

If the water sensor of one of the inputs indicates an alarm status, a push notification, telephone call, SMS and/or e-mail will follow. The contact persons can be set, with multiple options for the alarm message.
The Mobeye WaterGuard-FS runs for more than a year on a set of batteries. A message is sent when the battery voltage is low. When using an external power source (12-24V DC or mains), it also sends "power failure" notifications; this is often the first indication that something is wrong and an action is required.

Mobeye WaterGuard-FS, reliable and effective

In addition to the included water level sensor a second potential-free sensor can be connected, such as a second float sensor or failure contact. The settings are easy to configure, including alarm delay times, inactive periods after an alarm, NO/NC input types, repeat notifications, test messages, and custom alarm texts.
For detecting water leaks the CM4300 with leakage sensor is a more suitable option.

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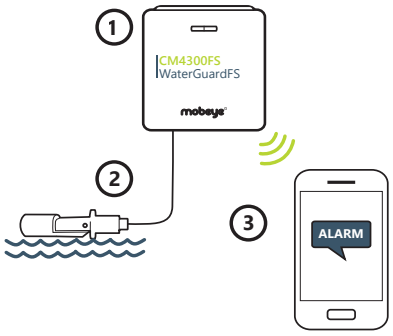
HOW IT WORKS



The Mobeye CM4300FS monitors whether the water level is at or below a pre-determined level. If the water level rises too high or falls too low, it sends an alert, ensuring you're promptly informed to take action.

1. Position the box in a dry area and set the contacts for the notifications.
2. Determine the desired water height for receiving an alarm. Install the water float horizontally, if necessary with the aid of an attachment.
3. As soon as the water closes (or opens) the float sensor, the WaterGuard-FS sends alarm messages to the contact persons. By using the portal and app, you can establish an escalation plan that includes alarm confirmation.

Mobeye SIM, Portal & App service

The Mobeye Portal offers a clear dashboard and essential functions, such as push notifications per app, online programming, setting up the notifications, insight into the status, events, network strength and position (Cell-Id). The 'keep-alive' monitor offers extra security by monitoring the receipt of test messages. You can activate the supplied Mobeye SIM card online.

CM4300FS - Technical data

Contents	• CM4300FS, water float sensor, 2x CR123 batteries, SIM card
(Alarm) messages	• water alarm, input alarm, power failure, alarm recovery, battery low voltage, (missed) test report • to private contacts via app, call, text message and/or e-mail, or to a control room (ARC)
Reporting	• status, setting list, event history, network strength and position based on Cell ID
Setting options	• contacts (unlimited number) for alarm and service messages, message texts, repeat cycles, input type normally open or normally closed, recovery messages, alarm delay times, test interval (keep-alive), ARC, etc.
Operation	• arming and disarming via button, time schedules and SMS
Water sensor	• suitable for water-based liquids, 1.5 meter cable (extendable with 2-core wire)
Inputs	• 1x input for water float sensor, 1x NO/NC input (potential-free), 1x 12-24V DC (+/- 2V)
Power supply	• 2x CR123 lithium batteries *or* 12-24V DC (regulated) + 2x CR123 lithium
Battery lifetime	• > 1 year at normal use (battery operated), > 3 years at normal use (powered externally)
Dimensions	• 94 x 94 x 28 mm
Connectivity	• Mobeye SIM/Portal the Mobeye SIM card and Portal/App services provide full functionality and optimum security. The 4G LTE-M network is very reliable and ensures a strong penetration against low energy consumption. 2G is available as a fallback • Own SIM card When using your own SIM card, the device operates on 2G; with an LTE-M SIM card and the correct APN settings, it also supports 4G. The device runs "stand-alone", without using the Mobeye Portal. The alarm notifications are sent via SMS and (if supported by the network) telephone call to (max.) 5 contacts. Programming is done via (simple) SMS commands
Accessories (not included)	• mains adapter, external antenna, float sensor for other substances (e.g. diesel)

Mobeye is specialised in high-quality 2G/4G alarm and telemetry technology. Visit mobeye.com for more information.

Mobeye water detectors - product versions			
Product (IP44)	Product (IP66)	Sensor	Extra input
CM4300	CM4300X	Leak sensor	2x NO/NC
CM4300FS	CM4300FSX	Float sensor	1x NO/NC