

# MOBEYE FROST ALARM



**CM2200X  
CML2275**

**TEMPERATURE ALARM  
TEMPERATURE ALARM + TEMPERATURE TREND**

## Waking up at the right time

The Mobeye Night Frost Detectors are a reliable aid for growers and farmers. In the spring, the temperature detector warns of approaching night frost. The Mobeye detector wakes up the contacts by phone as soon as the set temperature has been reached. The grower can then determine whether the blossom should be protected by sprinkling or other measures.

The Mobeye night frost detectors continuously measure the outside temperature and alarm when the limit value is reached. The Mobeye CM2200X only gives an alarm, possibly with repetitions. The CML2275 displays, in addition to alarms, the temperature trend via an online application. Once in alarm status, the graph is refreshed every few minutes. The detectors can run on batteries for a long time. The temperature sensor is factory calibrated.

### Smart Data Transfer

During the blossom period, the Mobeye CML2275 Smart Data Transfer option offers optimal insight into the temperature values. Once the outside air enters the critical temperature zone, the log and sync frequencies are automatically increased. When the alarm limit is reached, an instant telephone alarm follows and the graph is refreshed every few minutes. This helps to go into the night without worries.

### Mobeye agro products

Mobeye is a Dutch company with local development and production. With sensors and low power telemetry, Mobeye offers products for the agricultural sector. The products have been optimized for agricultural use in close consultation with the sector.

### SIM card

For the communication an M2M SIM card is required. The affordable Mobeye SIM provides direct access to the online portal. The CM2200X also works with its own M2M sim for only call+sms. The CML2275 log functions require the SIM/portal service.

### Applications

- frost alarm, reporting cold temperatures
- heat alarm, reporting warm temperatures
- Monitoring the storage areas

# Specifications

CIM2200X



CML2275



	CIM2200X	CML2275	
<b>Reactions</b>	• SMS, call, e-mail in case of alarm on temperature and inputs	√	√
	• (local) sound indication in case of alarm		√
	• notification at low battery voltage	√	√
	• with external power supply: power failure message, remote control	√	√
<b>Mobeye Portal</b>	• Mobeye Internet Portal with Mobeye SIM card	optional	√
	• alarm by call, SMS and/or e-mail	√	√
	• logging of temperature values with display in graph and table		√
	• programming via internet, status insight via web application	√	√
	• monitoring of test messages; if not timely received, a notification will follow	√	√
	• Smart Data Transfer (option for increased log and data synchronization at critical temperature and in alarm situation)		√
<b>Features</b>	• number of temperature sensors to be connected	1	2
	• min. and max. temperature limit (-35 °C ... +70 °C)	√	√
	• outdoor enclosure	IP66	IP66
	• alarm texts, alarm delay, inactive time, alarm repeat, etc.	√	√
	• inputs: 2 (NO/NC) for signals/ sensors	√	√
	• input 12 VDC, option for measuring external voltage	√	√
	• output: open collector (200mA)		√
	• time-controlled switching on and off	√	√
	• can work on batteries only (> 1 yr with daily notification); batteries included	√	√
	• option: battery pack for +/- 4 year battery life	√	√

## Product information

<b>Content</b>	• Base unit with integrated GSM module, 1 external temperature sensor, 2x CR123 batteries
<b>Enclosure</b>	• 170 x 135 x 115 mm
<b>Temperature sensor</b>	<ul style="list-style-type: none"> <li>• Temperature measurement in decimals</li> <li>• Digital sensor, calibrated with accuracy &lt; 0,5°C. Own calibration value can be set.</li> <li>• Cable length: 1 meter (extendable with extension cable AC-EC1 (1m), AC-EC2 (1m flat cable), AC-EC3 1 (10m))</li> </ul>
<b>Ambient temperature</b>	• -10 ... +55 °C
<b>Power supply</b>	<ul style="list-style-type: none"> <li>• 2x CR123 lithium batteries (included)</li> <li>or</li> <li>• 12 VDC + 2x CR123 lithium batteries</li> </ul>
<b>Battery life</b>	<ul style="list-style-type: none"> <li>• &gt; 1 year with daily notification and daily synchronization with portal (battery powered)</li> <li>• &gt; 3 years when used with external power supply</li> </ul>
<b>Communication</b>	• Quad band EGSM 900/1800 - 850/1900 MHz
<b>Accessories (not included)</b>	<ul style="list-style-type: none"> <li>• AC adapter (12VDC 500mA)</li> <li>• Extension cable for temperature sensor (2.5m, 10m or "flat" for rubbers of refrigerator)</li> <li>• Extra temperature sensor (1m or 10m cable)</li> <li>• Battery pack for battery life +/- 4 year</li> </ul>