Standard Industrial Sensor Transmission Module
Reading, alarming and logging of sensor values

CML4015
Mobeye SISTM

The Mobeye SISTM measures the values of industrial sensors with an analog output. The inputs of the SISTM read the output values and convert them into meaningful parameters. If (min./max.) limits have been set and these are exceeded, the contact persons receive an alarm message. Periodically, the sensor values are logged and displayed in an online portal.

The Mobeye SISTM is a 2-channel module, suitable for all sensors with an output value between 0 and (maximum) 10 Volt, or 4-20 mA. The analogue values ar converted to accurate and comprehesible values by setting the measuring range, conversion factor, and calibration value. The SISTM is connected to the Mobeye Internet Portal and (alarm) contact persons via the internal 4G LTE-M / 2G communication module.

External power versus autonomous battery operation

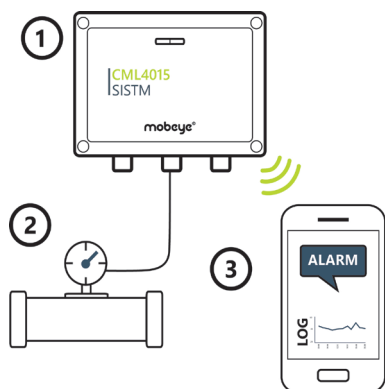|	
Sensor values	
- 0 - (max.) **10V**	
(0-1V, 0-3V, 0-5V, 0-10V)	
- 4 - 20mA	
Typical measurements:	
- pressure	
- vacuum	
- conductivity	
- soil moisture	
- humidity	

CML4015-HP — Continuous measurement on the sensors. If the threshhold values is violated, an immediate alarm message follows. Periodic logging and data synchronization to the portal.
Externally powered; SISTM and sensors and operate on a 12-24V DC voltage source or via a mains adapter.

CML4015-LP — Periodic measurement on the sensors, with adjustable interval and warm-up time of the sensors. Periodic logging and comparison with alarm limit. If the alarm limit falls below or is exceeded, an alarm message follows. Periodic data synchronization to the portal.
Battery powered (6V) SISTM and sensors (5V/15V).

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HOW IT WORKS

The Mobeye SISTM measures the analog sensor values. Any sensor with a suitable output signal can be connected. If there is no voltage on site, the SISTM measures, reports and logs completely autonomously.

1 Select a suitable sensor and place it together with the Mobeye SISTM.

2 Set the warm-up time, calibration value, log frequency, alarm limits, and other settings and choose contacts for the notifications.

3 If the alarm limits are violated, the SISTM sends alarm messages to the contacts. The logged values are available online in table and graph form.

Mobeye SIM, Portal & App service

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

CML4015 - Technical data

Contents	• CML4015-HP: incl. 2x CR123 batteries, SIM card • CML4015-LP: incl. SIM card
(Alarm) messages	• sensor alarm, power failure, alarm recovery, battery low voltage, (missed) test report • to private contacts via app, call, text message and/or e-mail; local piezo siren
Reporting	• sensor values, status, setting list, event history, network strength and position based on Cell ID
Operation	• arming and disarming via button, time schedules and SMS
Setting options	• min./max. alarm limits per sensor input, log interval (in min.), interval for data synchronisation (in hours), input type (0-1V, 0-10V, 4-20mA), sensor warm-up time, measurement continuous vs. periodic, calibration value, conversion value, label, repeat cycles, alarm delay times, test interval (keep-alive), contact persons (unlimited number) for alarm and service messages, message texts, etc.
Inputs	• 2x analog input
Output	• open collector (at external voltage), max. 200mA. Switches in the event of an alarm or after incoming SMS/call
Power supply	• CML4015-HP: 12-24V DC (regulated) + 2x CR123 lithium • CML4015-LP: 6-12V (7,2V battery pack available as accessory) power supply to sensor: 5V of 15V
Battery lifetime	• CML4015-HP: > 3 jaar at normal use • CML4015-LP: dependent on use up to 10 years
Dimensions & IP value	• CML4015-HP: 130 x 85 x 35 mm, IP66 • CML4015-LP: 130 x 85 x 60 mm, IP66
Connectivity	• 4G LTE-M + 2G EGSM Quad band the Mobeye SIM card and Internet Portal 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
Accessories (not included)	• 7,2V 34Ah battery pack, 6,0V 4,8Ah battery pack, mains adapter, external antenna • various sensors, consult Mobeye for advice