

Code: SMART-HUB-PLUS

## WIRELESS SYSTEM CONTROLLER **SMART-HUB-PLUS** BE WAVE SATEL

The SMART-HUB-PLUS controller is the main device of the BE WAVE system. Enables a wide range of system functions, both automation and security related. The SMART-HUB-PLUS manages the operation of all BE WAVE system devices, which can be connected up to 128 in a single installation.

The **BE WAVE** application is dedicated to management. Simple and intuitive menu makes the system operations simple and obvious. The free BE WAVE application will send a notification to your phone when the sensors detect an event, and you have control of the device at any time, no matter where you are - all you need is Internet access and a smartphone. In the event of an Internet outage, SMART-HUB-PLUS can also operate in the local mode, in which case it will broadcast the WiFi you need to connect to in order to control your system. The SMART-HUB-PLUS controller is additionally equipped with a telephone module, so that it can also communicate via 2G, 4G mobile networks in case of lack of access to Internet infrastructure. Slots for 2 SIM cards allow you to fit cards from 2 different operators (automatic switching when the signal of one of the networks is lost).

The SMART-HUB-PLUS built-in wireless system controller uses proven **ABAX 2** technology to communicate between devices, providing safe and secure communication, long range, and advanced power management mechanisms to extend the devices' operating time on a single battery.

The **BE WAVE** System is a family of unique wireless devices, bringing smart solutions to your home, performing home automation functions, protection against intruders, analysis of sensor readings and detection and response to events.



Application:	BE WAVE system
Port LAN:	1 x Ethernet RJ45
Wireless:	<ul style="list-style-type: none"> <li>• ABAX2 : 868.0 MHz ... 868.6 MHz,</li> <li>• WiFi : 2.4 GHz IEEE 802.11 b/g/n, 5 GHz IEEE 802.11 a/n,</li> <li>• 4G LTE, 2G GSM</li> </ul>
Radio communication range (at open area):	ABAX2 : < 1100 m
LED indicators:	System / Status
Events memory:	5000
Number of supported devices:	128
Number of users:	50
Memory card slot:	microSD - 32 GB included
SIM card slot:	2 x ( Dual SIM )



# DATA SHEET

Mobile phones support:	<ul style="list-style-type: none"><li>• The <a href="#">BE WAVE</a> free application on Android</li><li>• The <a href="#">BE WAVE</a> free application on iOS</li></ul>
Main features:	<ul style="list-style-type: none"><li>• Configuration using the BE WAVE application,</li><li>• Remote control and management,</li><li>• WiFi - local access</li><li>• Bi-directional encrypted radio communication : AES-128</li><li>• Transmission channel diversity - automatic selection of the one of 4 channels that will enable transmission without interference with other signals in the 868 MHz frequency band</li><li>• Independent radio channel for image reception</li><li>• SMS/CLIP/PUSH personal messaging,</li><li>• Setting scenarios,</li><li>• Reporting events to two monitoring stations</li><li>• Supported formats: Contact ID IP, SIA IP</li><li>• Dual Path Reporting</li><li>• Communication via Ethernet network</li><li>• The built-in mobile phone module with 2 SIM slots (SMS, monitoring to the station, mobile application, PUSH messaging) - data transmission in 4G LTE / 2G GSM technology - depending on the capabilities of the cellular network</li><li>• Software update via network</li><li>• The "ECO" option allows to extend the battery life up to four times (only in ABAX2)</li><li>• Battery charging possible</li><li>• Battery voltage control</li><li>• Monitoring the status of the battery</li><li>• Low battery level alarm</li><li>• Possibility to mount to the wall</li><li>• Tamper protection (detection of removing from mounting surface and enclosure opening)</li><li>• Power cord - included</li></ul>
Housing:	Plastic
Color:	White
Environmental class EN 50130-5:	II
Power supply:	<ul style="list-style-type: none"><li>• 230 V AC @ 50 Hz,</li><li>• 18650 battery Li-Ion 3.6 V / 3200 mAh - Emergency Power Supply</li></ul>
Power consumption:	<ul style="list-style-type: none"><li>• max. 2.8 W (operation)</li><li>• 1.85 W (Standby mode)</li></ul>
Battery lifetime:	≤ 8 years - ECO mode
Operation temp:	-10 °C ... 55 °C
Permissible relative humidity:	max. 93 % ± 3 %
Weight:	0.328 kg
Dimensions:	158 x 158 x 30 mm
Manufacturer / Brand:	SATEL
Guarantee:	2 years