

AGB-2000 base station

- ✓ wireless communication with sensors and actuators of the AGREUS® system
- ✓ wireless transmission of information to the AGREUS® internet Portal
- ✓ information from the base station and remote control available on-line, from anywhere on desktop computers and mobile devices (smartphone, tablet, laptop)
- ✓ constant control of crop parameters and optimization of irrigation and fertigation processes
- ✓ for use in agriculture, horticulture, forestry and green spaces

The AGB-2000 base station is a device that is the central point of the AGREUS® System. The purpose of the base station in the system is to intermediate communications between the measurement and executive modules (elements of the AGREUS® system) and the AGREUS® Portal located in the cloud. In order to optimize the range, the AGREUS® System allows for installations using many base stations associated with the same user account, which enables coverage of large-area farms or farms with a dispersed structure of agricultural land.

KEY FEATURES

- Range up to several kilometers (depending on the height of the base station as well as topography and land cover),
- Support for even the most distant measurement and executive modules, thanks to the possibility of connecting an external antenna (option),
- High frequency of data transfer from the module network – every 1 minute,
- Transmission security – data transferred between system components are fully encrypted using the AES-128 protocol,
- Easy integration of the device with the AGREUS® system thanks to the TapIN (NFC) technology – you bring the smartphone closer and the system automatically recognizes the base station (Note! The smartphone must be enabled to read NFC and have the Agreus application running),
- Immunity to environmental conditions IP 44, which means reliable operation regardless of weather conditions,
- Many mounting methods: on a dedicated tripod, on masts or on walls,
- Remote software update,
- The AGREUS® portal can send SMS and email notifications about alarm events detected by the base station, such as loss of communication with the module.



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Technical data

General

- Dimensions: 116 x 146 mm
- Weight: 395 g
- Mounting method:
 - » frame on a tripod with the possibility of anchoring to the ground – total height is 1.3 m or 2.3 m
 - » To a tubular mast – the clamp allows the holder to be mounted on masts of various diameters, the height of the base is 0.3 m
 - » To a wall or other part – the clamp allows you to mount the holder to a flat surface, height of the base is 0.3 m
- Working temperature: -20 to + 50 °C
- Relative humidity: 95 %, non-condensing
- Protection class: IP 44

2G/3G/4G modem

- Modem type: Thales ELS61-E
- 2G: 900, 1800 MHz
- 3G: Band 8, 1 - 900, 2100 MHz
- 4G: Band 1, 3, 8, 20, 28
- Antenna: built-in

Radio modem

- Radio technology: Semtech LoRa®
- Working channel frequency: 869.5 MHz
- Working channel band: 125 kHz
- Maximum transmit power: 25 mW
- Receiver sensitivity: -133.5 dBm
- Antenna: built-in or external with the SMA-F connector
- External antenna impedance: 50 Ω

Communication interfaces

- WiFi: 802.11 b/g/n WLAN (internal antenna)
- Bluetooth: v4.2 BR/DR/LE (internal antenna)
- Ethernet: 10Base-T/100Base-TX with POE (option)

Power supply

- DC voltage: 9-42 V DC
- AC voltage: 9-24 V AC
- Input current (for 24 V DC): 55 mA

