

# PRO Base Station

An environmental monitoring solution that acts as a gateway, data storage, and web server. Receives sensor measurements from Aranet PRO series devices using Aranet Sub-GHz ISM band radio.



## Product numbers

Radio band	12 sensors	50 sensors	100 sensors
EU868	TDSBWPA1.012	TDSBWPA1.050	TDSBWPA1.100
US920	TDSBWPA2.012	TDSBWPA2.050	TDSBWPA2.100
AS923	TDSBWBC1		
JP923	TDSBWBJ1		
KR923	Not available		

- EU868 is intended to be used in the European Union; US920 in United States of America, Canada, South America; AS923 in Brunei, Cambodia, Hong Kong, Indonesia, Laos, Taiwan, Thailand, Vietnam; JP923 in Japan, Malaysia, Singapore; KR923 in South Korea.
- Upgrade licenses for optional sensor quantities “12 to 50”, “12 to 100”, and “50 to 100”, are available.

## Aranet radio bands and channels

Radio band	Channel 1	Channel 2	Channel 3	Channel 4
EU868	868.1 MHz	868.3 MHz	868.5 MHz	—
US920	917.3 and 922.9 MHz	917.5 and 923.1 MHz	917.7 and 923.3 MHz	917.9 and 923.5 MHz
AS923	923.1 MHz	923.3 MHz	—	—
JP923	923.0 MHz	923.4 MHz	—	—
KR923	923.1 MHz	923.3 MHz	—	—

- This table outlines the radio channels utilized by Aranet Sub-GHz radio technology for transmitting sensor data to the base station, complying with the legislation in various regions. To determine availability of this product in your region and the corresponding channels used, refer to the “Product numbers” table located at the beginning of this document.

## Connectivity

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Receiver sensitivity	-127 dBm
Ports	RJ45 with PoE 802.3af power input
Communication	Ethernet, Wi-Fi 2.4 GHz access point or client mode
Data protection methods	XXTEA, HTTPS, password-protected user accounts

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## Highlighted features

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Local data storage	10-years measurement data for 100 sensors
Integrations	MQTT, Modbus TCP/IP, BACnet IP
User Interface languages	English, French, Spanish, Italian, Portuguese, Nederland, German, Russian, Latvian

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- Additional licences are required to use listed integrations.




## General specifications

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Power	12 VDC, 0.5A	
Ingress protection rating	IP42	
Operating temperature range	0 – 45 °C	32 – 113 °F
Operating relative humidity range	0 – 90 %	
Dimensions	170×107×26 mm	6.7×4.2×1.0 in
Weight	190 g	6.07 oz
Enclosure material	ABS plastic	

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## Compliance information

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-  Conformité Européenne
  -  Federal Communications Commission (USA)
  -  Innovation, Science and Economic Development Canada
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