

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

Product number	Radio band	To be used in
TDSBWB01	EU868	European Union
TDSBWBU1	US920	United States of America, Canada, South America, Australia, New Zealand
TDSBWBC1	AS923	BRN, KHM, HKG, IDN, LAO, TWN, THA, VNM, MYS, SGP
TDSBWB11	JP923	Japan
Not available	KR923	South Korea

- Base station provides support to 12 Aranet PRO series sensors out of the box. Upgrade licenses for optional sensor quantities “12 to 50”, “12 to 100”, and “50 to 100”, are available with Aranet product numbers TDLU012050, TDLU012100, and TDLU050100 respectively.

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 at the beginning of this document.

Connectivity

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

Highlighted features

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

- Additional licences are required to use listed integrations.

General specifications

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	

Compliance information

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