Gateway Pro

This device is the central hub for your Aranet wireless sensor network. It collects data from connected sensors and forwards it to Aranet Cloud or local integrations, ensuring continuous real-time monitoring. Built-in cache storage prevents data loss during network interruptions. The large integrated touchscreen provides quick on-site access to key measurements and enables intuitive device configuration.



Product numbers

Product number	Radio band	To be used in
TDSGWP01	EU868	European Union
TDSGWPU1	US920	United States of America, Canada, South America, Australia, New Zealand
Not available	AS923	BRN, KHM, HKG, IDN, LAO, TWN, THA, VNM, MYS, SGP
Not available	JP923	Japan
Not available	KR923	South Korea

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.

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Connectivity

Receiver sensitivity	-127 dBm
Ports	1×USB 2.0 USB-C, 1×RJ45 with PoE 802.3af power input
Communication	Ethernet, Wi-Fi 2.4 GHz client mode

General specifications

Power	5 VDC, 1A	
Maximum sensor limit	100 sensors	
Cache memory	7200 measurement packets	
Operating temperature range	0 – 45 °C	32 – 113 °F
Operating relative humidity range	0 – 90 %	
Display type	LCD IPS, 480x480px	
Display size, diagonal	10 cm	4 in
Dimensions	98×98×32 mm	3.86×3.86×1.26 in
Weight	190 g	6.70 oz
Enclosure material	ABS plastic, glass	
Ingress protection rating	IP20	

- Avoid installing the Gateway Pro in locations exposed to direct sunlight or other heat sources. Excessive enclosure temperature may affect device performance, shorten operational lifespan, or lead to visual imperfections.
- The Gateway Pro is powered via a 5 VDC USB-C port or through the RJ45 port using PoE (IEEE 802.3af). A power adapter or PoE injector, Ethernet cable, and USB-C cable are not included. Compatible accessories can be used or purchased separately from the Aranet Store or other suppliers.
- When used in Japan, the Gateway Pro must be powered by a USB-C power adapter or PoE injector bearing the PSE mark, in accordance with the Electrical Appliances and Materials Safety Act (DENAN Act). Such accessories should be obtained locally.
- In case of an internet connection interruption, Gateway Pro can store up to 7 200 measurement packets in its cache memory. This corresponds to 12 h of data for 100 sensors with a 10-minute interval, or about 120 h for 10 sensors with the same interval. Cached measurements are not stored permanently and will be lost in the event of a reboot or power loss.

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Supported sensors

Sensor type	Sensor product number
CO_2 sensors	TDSPC0*3; TDSPC0*5
Temperature sensors	TDSPRH*2.002; TDSPT2*4; TDSPT1*1; TDSPT0*1; TDSPT8*2; TDSPT8*9; TDSPT5*9; TDSIR0*1; TDSPT3*6.010; TDSPT3*6.01E; TDSPT5*6.010; TDSPTA*6.010
Radon sensors	TDSPSR*2
Particle matter sensors	TDSPPM*2
Soil moisture sensor	TDSPSM*2.100; TDSPHE*2; TDSPHT*2; TDSPHW*2; TDSPHM*2; TDSPHG*2
PAR sensor	TDSKAR*2
Sap flow sensor kit	TDSKT1*2
Stem diameter sensor kit	TDSPSD*3
EC and pH sensors	TDSECP*1; TDSEC0*1; TDSPH0*1
Drainage sensors	TDSPIK*2.010; TDSPHP*7; TDSPIL*2.010
Weight sensors	TDSPSV*2.100; TDSPSV*2.050; TDSKSV*2.050; TDSPSS*1
Energy meter kits	TDSKIC01.010; TDSKIC03.010
NH_3 sensor kit	TDSPDL*3
Dry contact pulse counter	TDSPIC*2.010
4–20 mA transmitters	TDSPCL*2.010; TDSCT1*2; TDSCT2*2
0–10 VDC transmitters	TDSPVM*2.010; TDSVT1*2; TDSVT2*2

- Full Aranet sensor portfolio support is under development and will be introduced in future firmware updates. Please contact your sales representative for the latest availability information.
- Aranet product number designations include the symbol "*" to signify multiple product numbers, which, depending on the region of use, have either 0, U or J in place of the asterisk. Refer to the relevant product datasheets for more information.

Supported local integrations

Integration	Supported from FW Version	Comments
MQTT	v1.8.4	Configured via Aranet Cloud
Modbus TCP/IP	v1.8.4	Configured via Aranet Cloud
BACnet	*Not supported*	Release timeline to be determined.
InfluxDB	*Not supported*	Release timeline to be determined.

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Available accessories

Product number	Description	Packaging
TDAUSB01	USB-C power adapter EU	To be ordered separately
TDAUSBU1	USB-C power adapter US	To be ordered separately
TDAPOE03	PoE Injector	To be ordered separately
TDAPOE04	PoE Adapter	To be ordered separately

Compliance information

CE Conformité Européenne

FC Federal Communications Commission (USA)

IC Innovation, Science and Economic Development Canada

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