

DynaGateway IoT-S

DynaGateway IoT-S: PN 600710-S

Datasheet August 2026

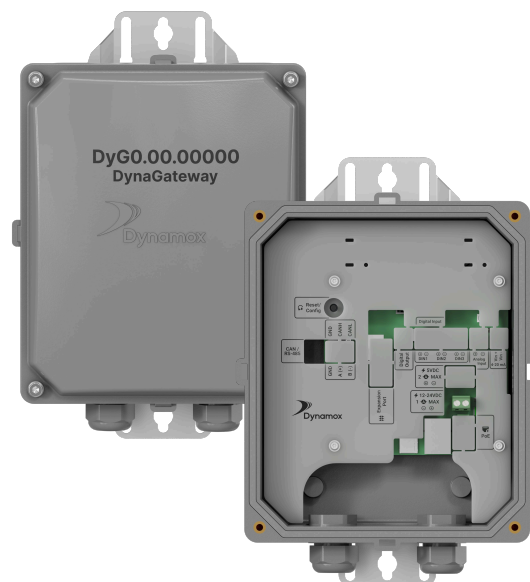
Overview

The DynaGateway is part of the Dynamox ecosystem and was developed to reliably and securely perform **automated collections** from the entire family of Dynamox wireless sensors. Through **Bluetooth®** technology, the DynaGateway can receive telemetry data from different variables, high-resolution vibration spectra, and even high-definition images from thermographic sensors.

The data collected by the DynaGateway is transmitted to the **Dynamox Platform** through one of the following communication options: **Ethernet, Wi-Fi, or Mobile Networks**. In scenarios of unstable internet communication, the data collected by the sensors is stored on the device via an **external SD card**, which has internal memory for offline data storage for up to 1 year.

This version also features an **integrated Mesh interface**, allowing the creation of a communication network between multiple devices – ideal for installations where only one device needs connectivity. Additionally, the DynaGateway allows remote firmware updates for the DynaGateway and sensors, meaning constant updates with new functionalities are possible.

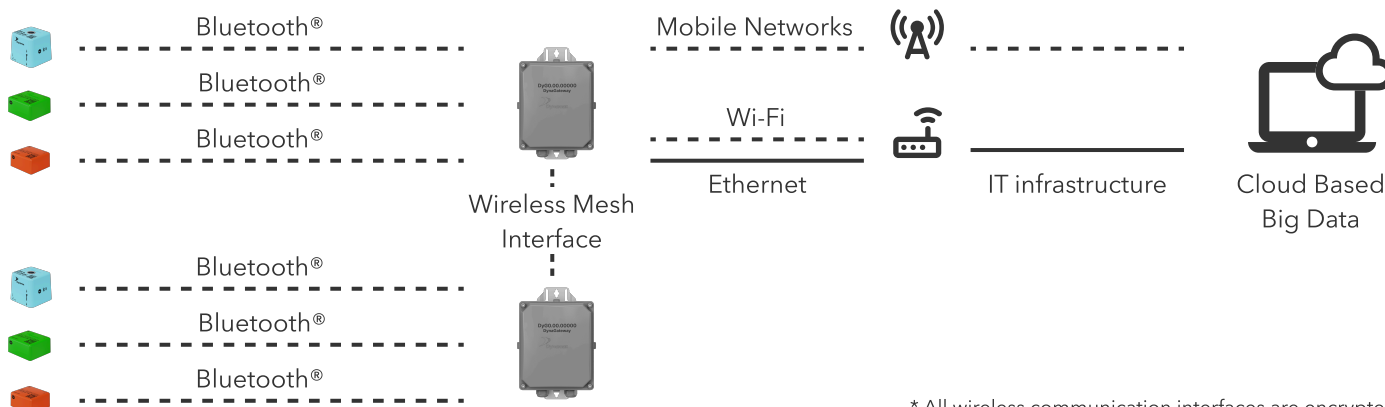
The **DynaGateway** is certified by **Anatel** and ensures safety and compliance with local standards. Its robust structure can maintain operation at temperatures up to **65 °C (149 °F)** with reliable performance in various applications.



Automated Collections

- Long-range automated collection via Bluetooth®
- Different options for communication network
- Integrated Mesh network
- Flexible mounting
- Power supply via external source or passive PoE
- Quick Setup: Fast configuration
- Firmware update

Data Flow*



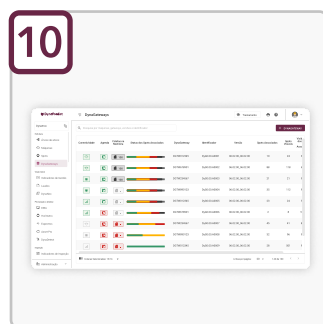
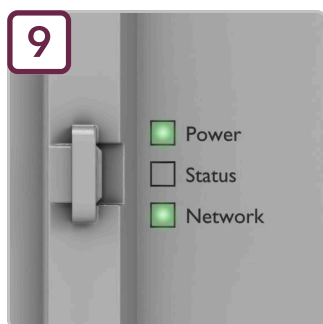
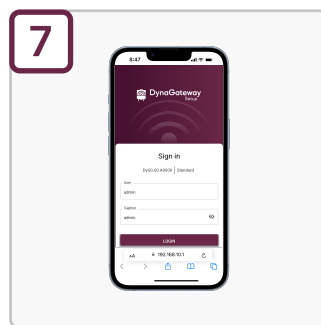
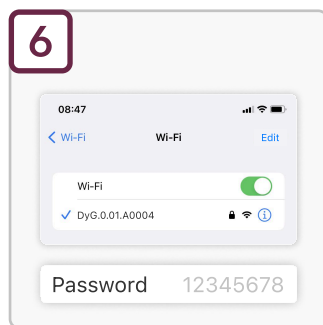
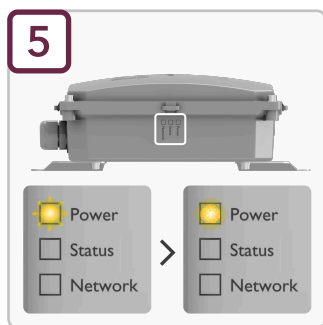
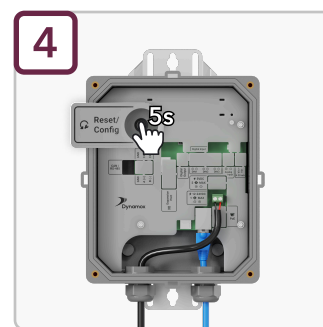
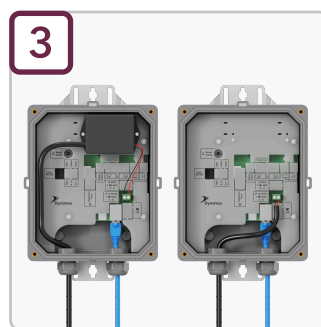
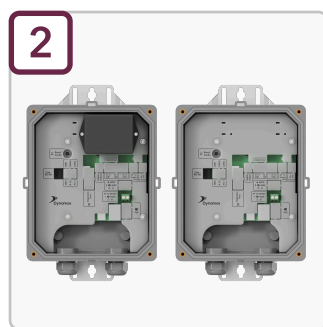
* All wireless communication interfaces are encrypted

PHYSICAL CHARACTERISTICS		
Dimensions		183.7 mm x 260.2 mm x 90.2 mm (7.24 in x 10.24 in x 3.55 in)
Weight		IoT: 995 g, IoT-S: 875 g
Material (casing)		ASA polycarbonate
Fixing		304 stainless steel
Operating Temperature		-24 °C ≤ T ≤ 65 °C (-11.2 °F ≤ T ≤ 149 °F)
Storage		External SD card (included)
POWER		
Power Supply		10-26 V - 1A ¹ or passive PoE
		10-26 V - 1 A via active PoE (external module)
Energy Consumption		4W (maximum), 2.5W (average)
COMMUNICATION INTERFACES		
Bluetooth®		Protocol: Bluetooth®
		Frequency range: 2,402 - 2,480 MHz
		Maximum transmission power: 21 dBm
		Antenna gain: 3 dBi
		Range: up to 700 m (in open field) ^{2,3}
Ethernet		Data rate: 10/100 Mbps
		Prot.: TCP, UDP, ICMP, IPv4, IPv6, ARP, IGMP, PPPoE, ISO 802-3/IEEE 802.3 (10BASE-T)
Wi-Fi 2.4 GHz		Protocols: 802.11 b/g/n (802.11 n up to 150 Mbps)
		Frequency range: 2,412 - 2,484 MHz
		Transmission power: 20.5 dBm
		Antenna gain: 3dBi
Mobile Networks	IoT	4G: B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66, B71, B85
		LTE-M/NB-IoT: Dual Mode LTE-M/NB-IoT
		2G: B2, B3, B5, B8
		Transmission power: 23 dBm
		Antenna gain: 6.1 dBi
Mesh Network		Operating frequency: 2,412 - 2,484 MHz
Serial		Standards: ISO 11898-1, RS-485
		Input voltage: min = -27 V, max = +40 V
		Data rate: 1 Mbps
OTHER INTERFACES		
External Button		Reset and Setup
LED		RGB
CERTIFICATION / HOMOLOGATION		
Anatel (National Telecommunications Agency of Brazil), CE, FCC, IC		

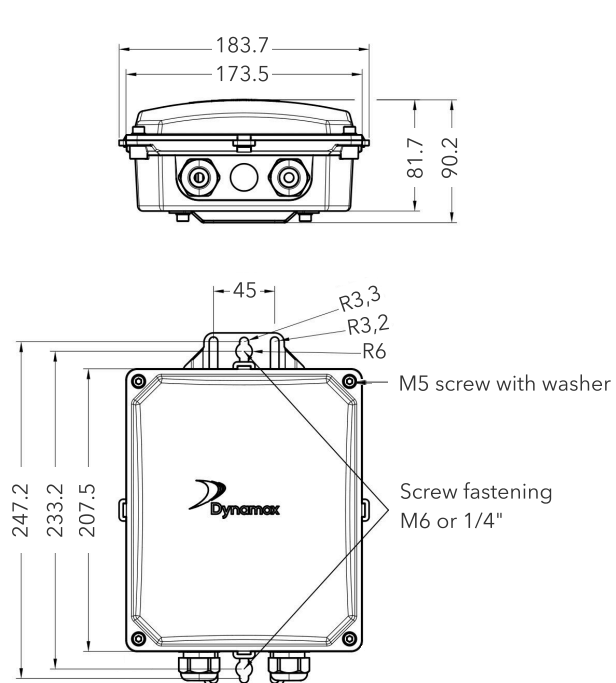
1 - DynaGateway models PN 600710-S and PN 600720-S don't come with an external power supply with 100~240 Vac input - 50/60 Hz. 2 - 400 m in unobstructed environments and with optimal positioning of the sensor and DynaGateway. 3 - 700 m with Long Range (LR) enabled, in unobstructed environments and with optimal positioning of the sensor and DynaGateway.

Quick Installation Guide

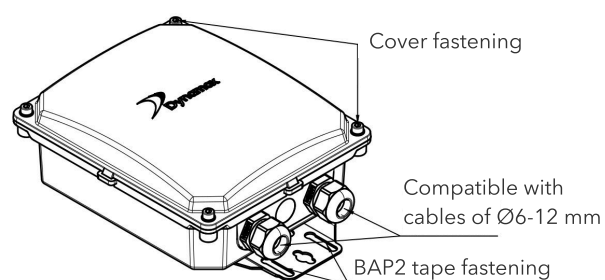
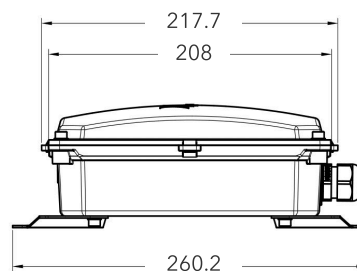
1. Remove the DynaGateway from the box. Scan the QR Code in the Getting Started guide included with the equipment to access the manual with usage instructions, technical information, initial guidelines, and warranty exchange details;
2. Remove the DynaGateway cover and check which type of power supply will be used;
3. Pass the cable through the outlet of the DynaGateway case and connect it to the available local power supply;
4. Press and hold the Reset/Config button for 5 seconds;
5. After this period, the Power LED will flash yellow. When you release the button, the Power LED will change to a steady yellow;
6. Connect to the Wi-Fi network generated by the device using a nearby computer or mobile device. The network credentials are: Network Name (SSID): serial number (printed on the device casing) | Password: 12345678;
7. Once connected, access the DynaGateway configuration mode by typing <http://dynagateway-setup.local/> or 192.168.10.1 in the browser. On this page, initially log in using the following credentials:
Username: admin | Password: admin. Follow the specific instructions to configure the equipment;
8. Place the equipment in the desired location, considering the available infrastructure. Secure it well;
9. Ensure that the equipment LEDs are on;
10. Check the DynaGateway configuration on the Dynamox Platform by accessing the DynaGateways page. Ensure that the DynaLoggers collection is correctly configured and complete the installation.



Technical Drawing

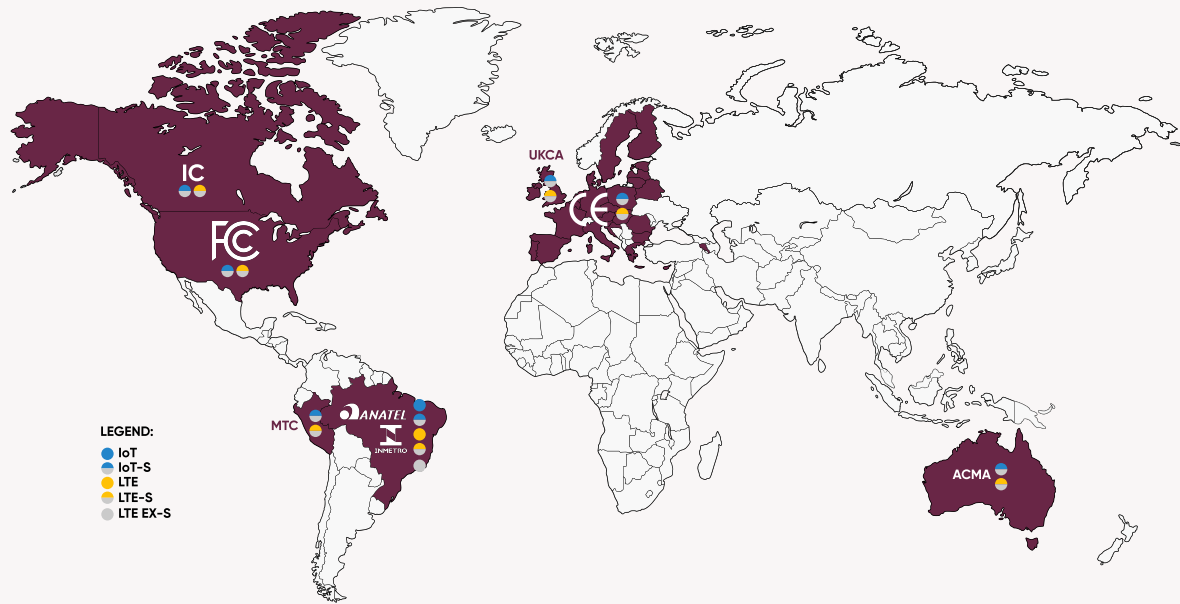


Dimensions in millimeters



CERTIFICATION

Homologation/Certification	ANATEL/CE/FCC/IC/MTC/UKCA/ACMA
IP Rating	IP66/IP67



For more information about certifications, contact our technical support at: www.dynamox.net/contact-us

© 2026, Dynamox® is a registered trademark.
All rights reserved.

The contents of this publication are presented for information purposes only. Every care has been taken to ensure the validity of the information contained in this publication, but no liability can be assumed for any loss or damage whether direct, indirect or arising from the use of the information contained herein. We reserve the right to modify or improve the specifications of our products at any time without prior notice.



Contact us:
www.dynamox.net/contact-us