Product: Data Center - LoRaWAN Gateway

Description: Compact, IP65-rated LoRaWAN gateway with local web interface, multi-radio support, and long-term data storage.

Revision History

Revision	Date	Reason	Edited By
A	04/04/23	Created	Lee Fleck
B	01/03/26	Update	David Gray

1. Specifications

Storage and Use	-40°C to + 85°C 0 - 95 %RH
Lifetime	Estimated MTBF 10 years (Mean Time Between Failure)
Size	175mm (High) x 80mm (Width) x 50mm (Depth)
Weight	175 grams
Mounting	Wall Mounting Flange
Enclosure Rating	IP65 polycarbonate enclosure
Power Supply	5V DC 3A USBC socket. External PSU included.
Internet Connections	2.4GHz Wi-Fi or Ethernet LAN Socket
Internal USB Hub	2 x USB A ports for accessories
Local interface	• Embedded web server (any browser) • No app installation required • No internet connection required • Real-time sensor data, diagnostics, and device status • Secure access via Wi-Fi
Security	• Encrypted communications • Firewall-controlled connectivity • Controlled local access (power-cycle enabled) • Restricted internet endpoints • Password-protected connections • PIN code protected settings
Data Storage	Non Volatile 8GB [Extensible to 1TB SD card on demand] Partitioned into: OS; App; Settings; Sensor Data Logs Typically stores up to 20 years of sensor readings.
LoRaWAN Radio	• 8-channel LoRaWAN concentrator TX 27dBm RX -141dBm • Based on Semtech **SX1302** digital baseband • Supports LoRaWAN **Class A, B, and C** • Multi-SF (SF7–SF12) and multi-band operation • High-capacity demodulation with improved sensitivity • FSK modulation support

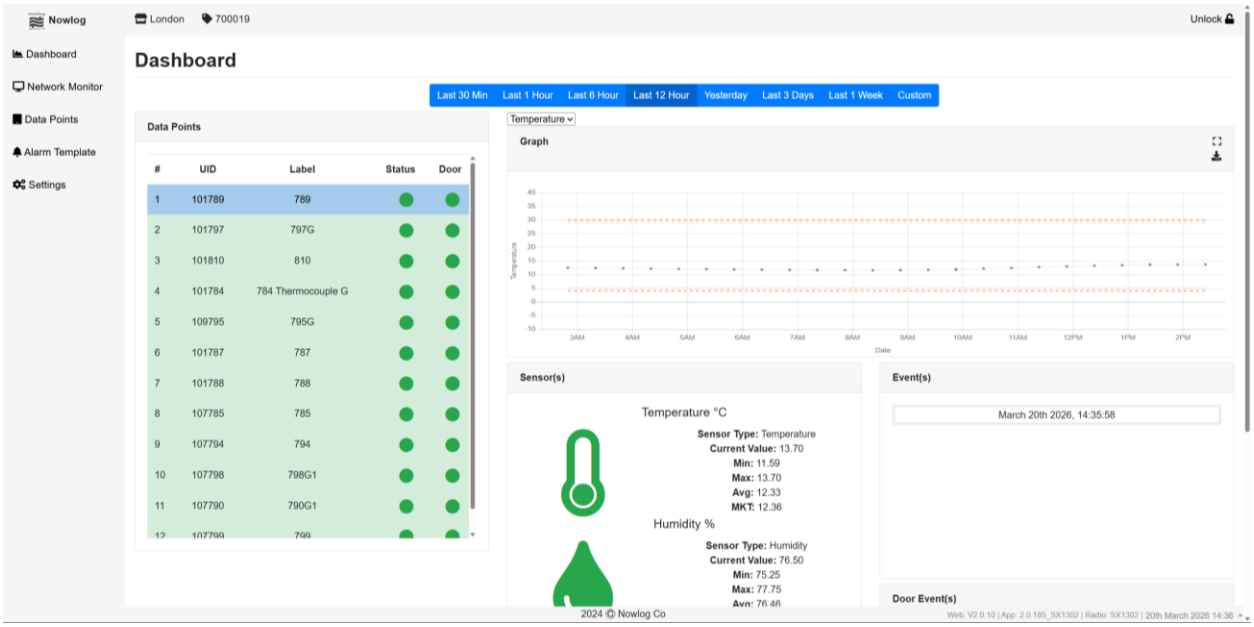
Bluetooth Radio	Available on demand
LoRaWAN Antenna	(SMA-Female), 863–870 MHz or 902–928 MHz, 3 dBi, omnidirectional, 110 mm whip, 50 Ω, –40°C to +85°C.
Wi-Fi Antenna	Internal build in

2. Quick Start Install Guide

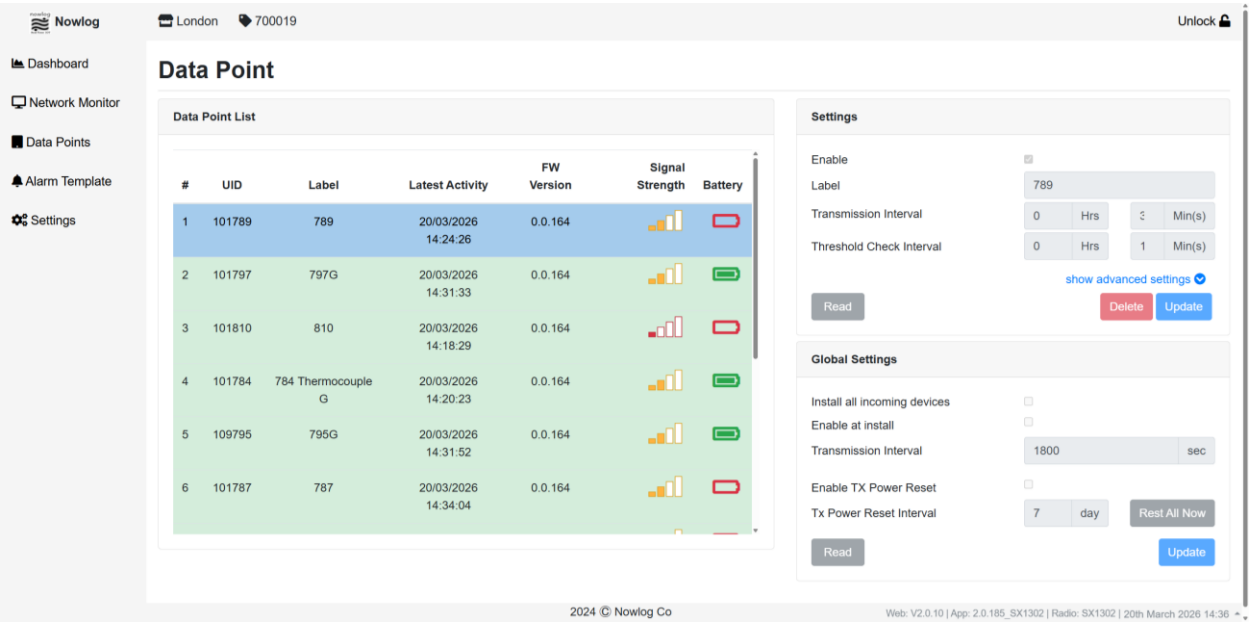
1. Plug in the gateway power supply.
2. Wait about 30 seconds for the gateway to boot.
3. A **red indicator light** on the top of the gateway confirms the device is powered.
4. Open Wi-Fi settings on your phone.
5. Connect to the Wi-Fi network named NOWLOG-GATEWAY.
   Password: XXXXXXXX [Printed on installation Card.
   Default = 12345678. Settable]
   (Your phone may show 'No Internet'. This is normal during setup.)
6. Scan the **QR code printed on the gateway**, or open a browser and go to: http://10.0.0.1/#/settings
7. The gateway settings page will appear in your phone browser.
8. Click 'Unlock'.
9. Enter the default PIN code: XXXX [Printed on installation Card.]
10. Select your local Wi-Fi network (or cellular hotspot) and enter your password.
11. The gateway will connect to the internet and come online.

3. Embedded Web Server Interface

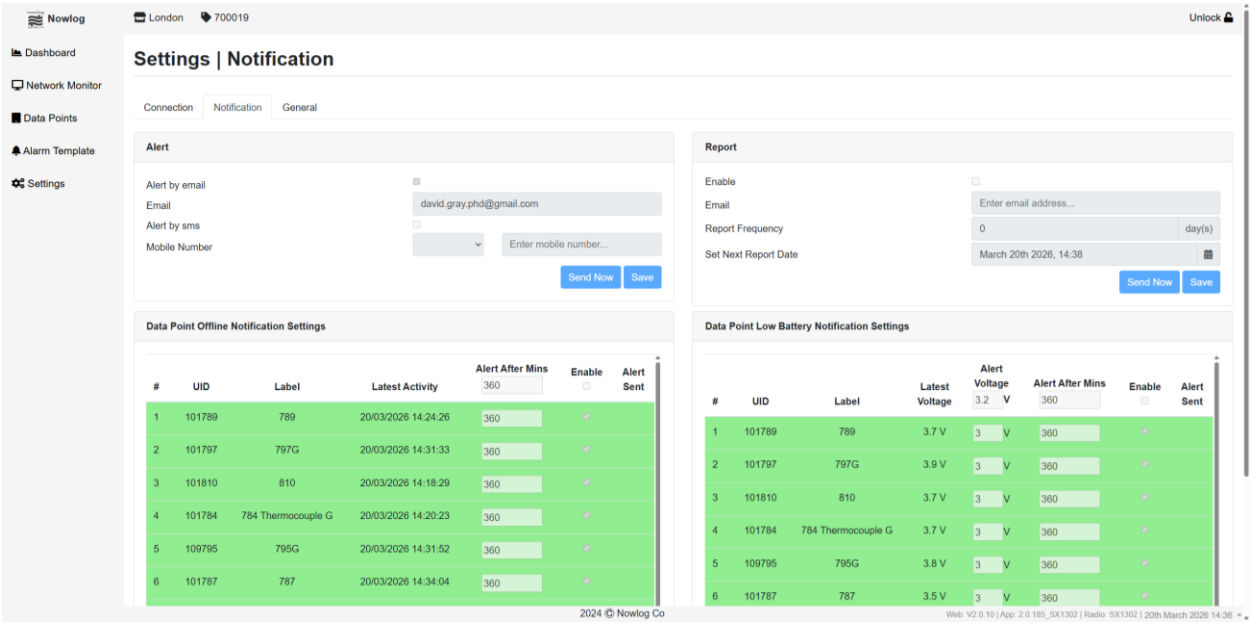
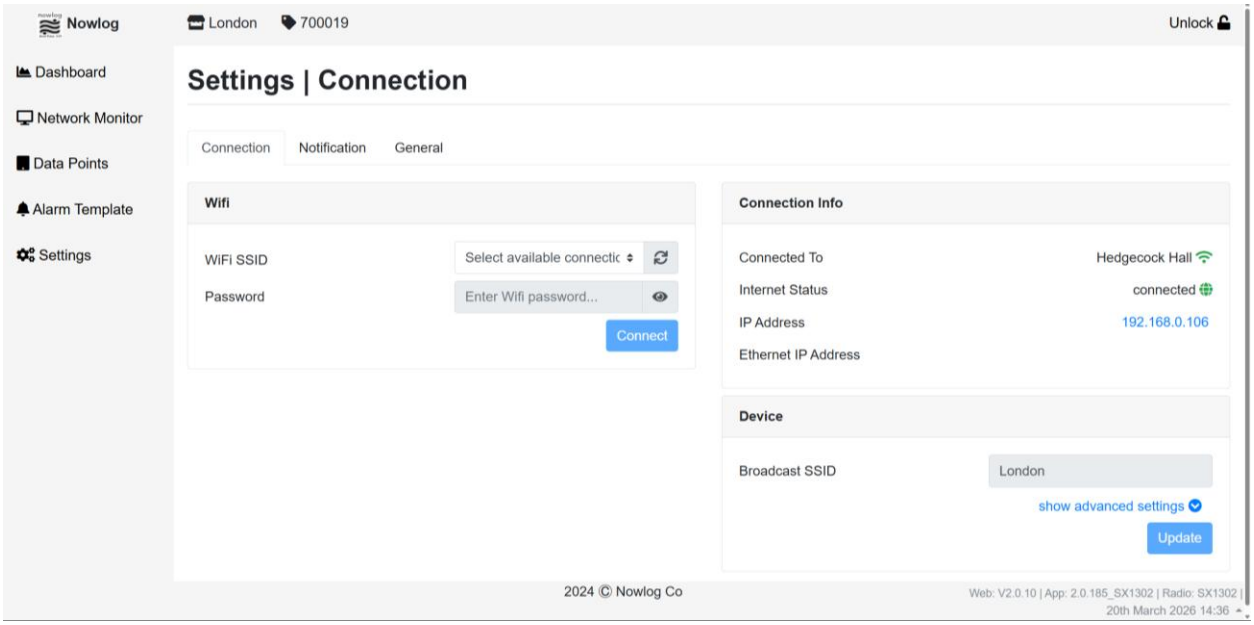
1. Live Sensor Dashboard.



2. Device Diagnostics Page.



3. Alerts Page.



4. Wi-Fi Setup Page.