

CGNDP4

Ultra-High Split D4.0 Meter

User Guide



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1 Introduction

Introduction

The CGNDP4 is a portable, weather-resistant DOCSIS meter designed for field diagnostics. Used together with the Hitron ProMeter mobile application, it enables technicians to perform signal measurements, device diagnostics, and network troubleshooting at the customer premises, outside plant, and headend.

The CGNDP4 supports low-, mid-, and high-split upstream architectures and provides the diagnostic capabilities required for efficient installation, maintenance, and service verification.

2 Product Overview

2.1 Product Specs

CGNDP4

Ultra-High Split D4 Meter



D4 DOCSIS® 4.0

Ultra-High Split
Supports low, mid, and high-split upstream architectures.

ProMeter App
Works with Hitron ProMeter mobile application.

 DS	1.8 GHz
 US	5–85/204/396/684 MHz
 Speedtest	Up to 8 Gbps
 WiFi	5 GHz – 2×2 802.11be
 Battery	9150 mAh ~ 8 hrs Typical Operation 4 hrs full load
 Ports	2× RF F-type male 75 Ω 1× 10GigE 1× USB-C

2.2 Hardware Connections and LEDs





Charge: 100% ●
75% ⚡
50% 🔋
25% 🔌
(Red/Green/Blue blinking): <10% ✨
(Rouge/Vert/Bleu Clignotant) ✨

Charging/En charge ● 🔁

Wi-Fi Broadcasting/Wi-Fi diffusé ● 📶

 **Battery Level**
Niveau de la batterie

 **Battery Charging Indicator**
Indicateur de recharge

 **Wi-Fi Indicator**
Indicateur Wi-Fi

online DOCSIS Registration Indicator
Indicateur de recharge

US Upstream Ranging Indicator
Indicateur du téléchassement

DS Downstream Scan Indicator
Indicateur du téléchargement

 **Power Indicator**
Indicateur de mise sous tension

S-Reset: Short press for reboot
Appuyez brièvement pour redémarrer

S-Reset 6+: Long press for factory reset (When Wi-Fi is broadcasting)
6+: -Réinitialiser: Appuyez longuement pour réinitialiser aux paramètres d'usine
(Une fois que le Wi-Fi est diffusé)

H-Reset: Force power off
Forcer l'arrêt de l'appareil



Registration Complete/Enregistrement complété ● **online**
Registration in Progress/Enregistrement en cours ✨

Upstream Ranging Complete/Recherche complétée ● **US**
Upstream Ranging/Recherche de fréquence ✨

Downstream Lock Complete/Verrouillage complété ● **DS**
Scanning Downstream/Verrouillage en cours ✨

Power on/Sous tension ● 🔌
Port1: AC Detected/CA détecté 🔌
Port2: AC Detected/CA détecté 🔌

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Installation

3 Connecting to the CGNDP4

This section explains how you can use your smart device to connect the CGNDP4.

1. RF Coaxial Cable Connection:

- 1.1 Connect the RF coaxial cable from the CMTS to the RF1 connector on the CGNDP4 for DOCSIS signal measurements. Refer to Figure 6.
- 1.2 Connect the RF coaxial cable installed inside the house to the RF2 connector on the CGNDP4 to identify the source of ingress noise. Refer to Figure 7.

Figure 6



Figure 7



2. Insert the battery into the meter.
3. Connect the supplied 12 V / 5 A power adapter to charge the battery.
4. Press the Power button located on the bottom of the CGNDP4 to turn on the device.

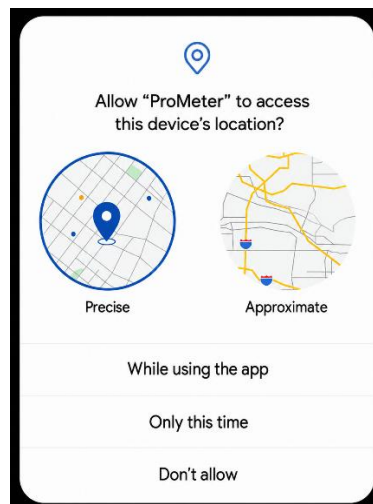
§ Note §

If the power button doesn't work, please press H-Reset button to force power off the CGNDP4.

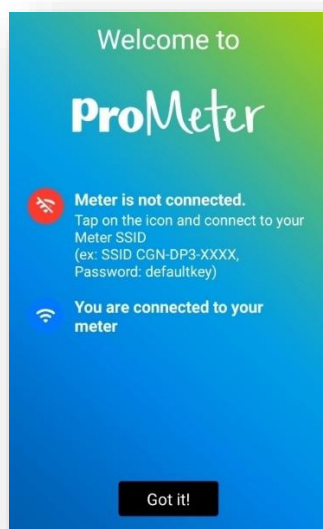
5. Enable Wi-Fi on your smartphone. Make sure Wi-Fi is turned on.
6. On the home screen, tap the Hitron ProMeter icon to launch the application.



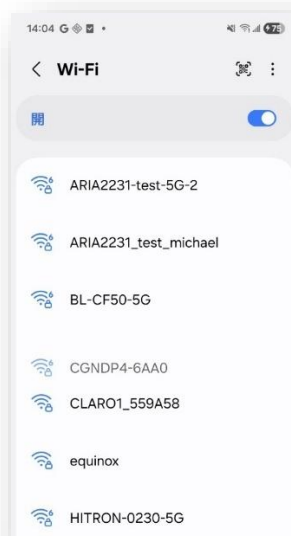
When you launch the application for the first time, you may be prompted to grant permission to access photos, media, files, and your device's location.



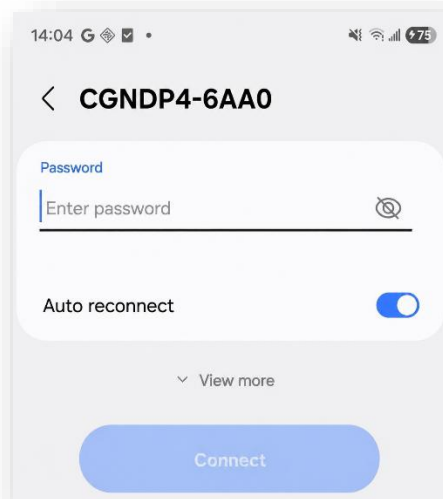
7. The app will check whether the meter is connected. Click "Got It!" to continue.



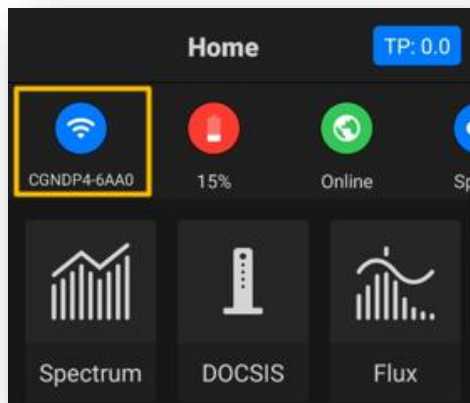
8. If the meter is not connected, the app will automatically scan for available Wi-Fi networks. Select the CGNDP4 you want to connect to.



9. Enter the password to connect. (Default password: defaultkey)

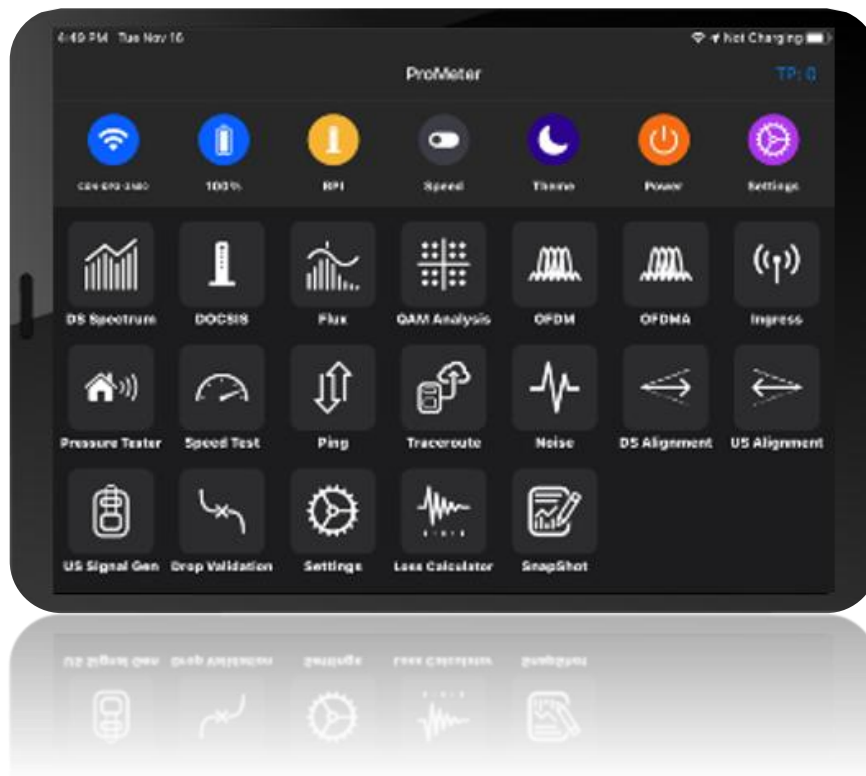


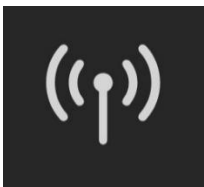
10. Once connected, the Wi-Fi connection icon will display the selected CGNDP4. You can now use all the features of the CGNDP4.

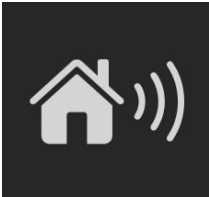
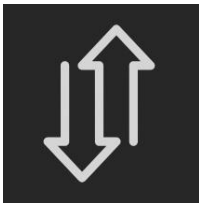
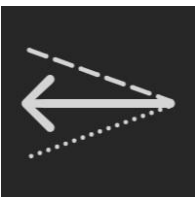


4 Features Overview

The Pro Meter Main Screen provides quick access to all the main features of the Pro Meter.



Icon/Name	Description
	Spectrum: Provide a graph in which RF signal strength is plotted on the y-axis and frequency is plotted on the x-axis, the frequency range is defined by downstream signal.
	DOCSIS: Displays information about the connected DOCSIS upstream and downstream channels.
	Flux: The CGNDP4 implements DOCSIS pre-equalization technology to help troubleshoot network issues. It enables technicians to identify plant impairments and pinpoint their locations within a few feet.
	QAM Analysis: Displays real-time QAM constellation and spectrum information for DOCSIS signal analysis.
	OFDM: Displays detailed OFDM spectrum and channel information, including signal parameters and channel status.
	Ingress: Displays a graph with signal strength on the y-axis and frequency on the x-axis over the upstream frequency range.

	Pressure Tester: Monitors cable pressure for leak detection and system maintenance.
	Speed Test: Use the Speed Test tool to measure network download and upload performance.
	Ping: Use this tool to send ICMP echo requests to verify network connectivity and diagnose network communication issues.
	Traceroute: Use the Traceroute tool to trace the network path to a destination.
	Noise: Displays the current upstream noise spectrum and heatmap to assist in identifying RF noise and interference.
	DS Alignment: Provides downstream signal measurements for alignment and verification.
	US Alignment: Provides upstream signal measurements for alignment and verification.

	US Signal Generator: Use the US Signal Generator tool to generate upstream test signals.
	Drop Validation: Validates the RF drop connection and signal quality.
	Loss Calculator: Calculates cable loss based on the selected cable type and length.

5 Statements and Warnings

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device is restricted for indoor use.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

Industry Canada(IC) Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs / récepteurs exempts de licence qui sont conformes au (x) RSS (s) exemptés de licence d'Innovation, Sciences et Développement économique Canada. L'opération est soumise aux deux conditions suivantes:

- (1) Cet appareil ne doit pas provoquer d'interférences.
- (2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.