DEIF Smart Remote

4921240727-A

Data sheet

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1. Product description

1.1 Overall description

DEIF Smart Remote Pluto 313 and Venus 511 are industrial gateways designed for remote monitoring and control of equipment and controllers. The devices enable secure, reliable communication between field assets and cloud-based management systems.

The gateways provide real-time data communication and remote accessibility, bridging field equipment with digital monitoring platforms. They support integration with DEIF controllers such as SGC, AGC 150, iE 150, AGC-4, and AGC-4 Mk II.

The Smart Remote devices are part of the DEIF ecosystem, enabling easy deployment, configuration, and integration into remote monitoring and power management solutions.

Typical application

DEIF Smart Remote gateways are used for remote monitoring of generators and power equipment. They connect the controller in the field to cloud-based platforms via secure communication channels, enabling monitoring, diagnostics, and control.

1.2 Model overview

Model	
Pluto 313 Entry-level gateway with essential connectivity including cellular (4G LTE), BLE, and RS485 communication.	
Venus 511 Mid-tier gateway with expanded functionality, including additional I/O, CAN communication, and integrated backup battery for improved reliability.	

1.3 Warnings and safety

1.3.1 Data security

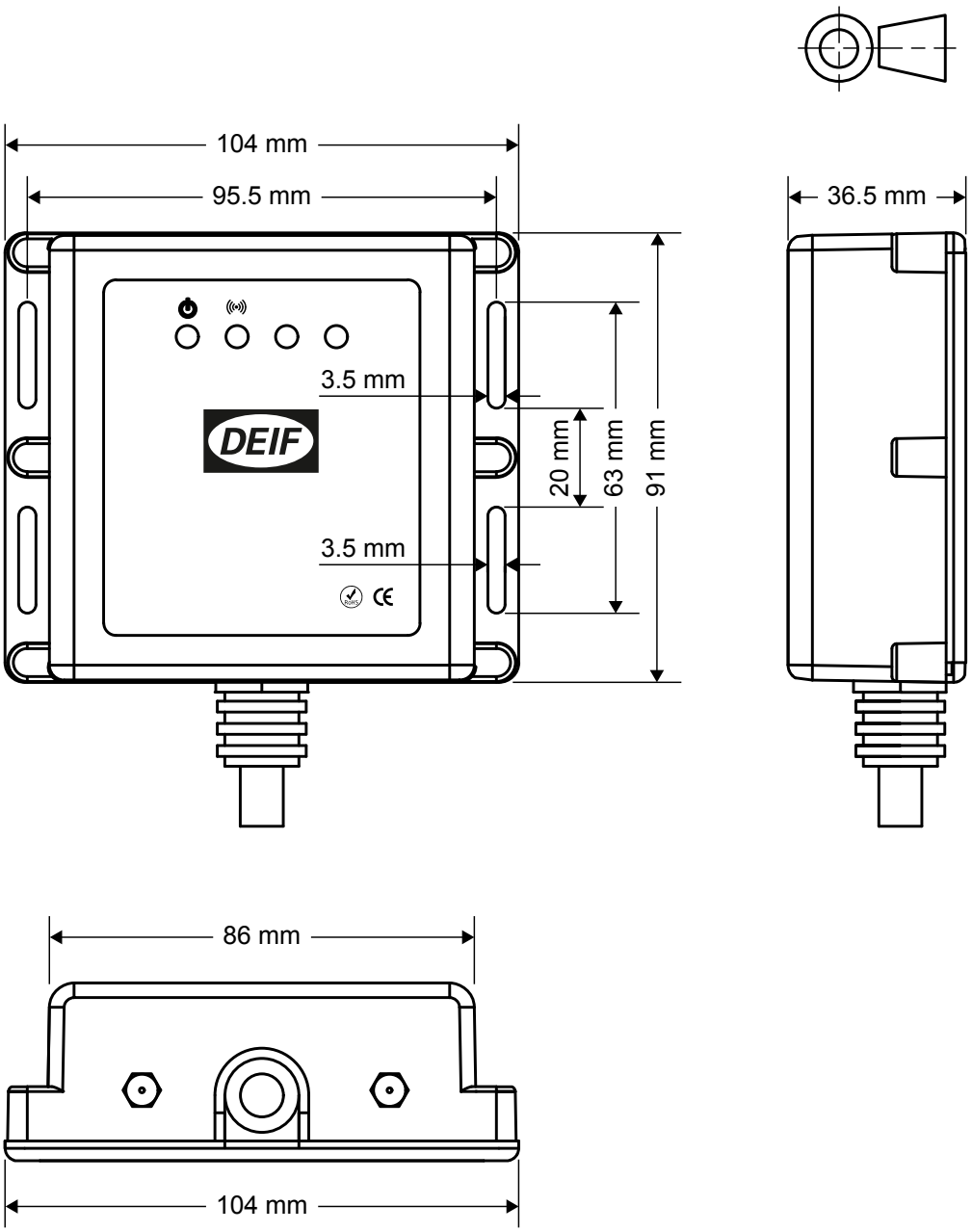
To minimise the risk of data security breaches DEIF recommends:

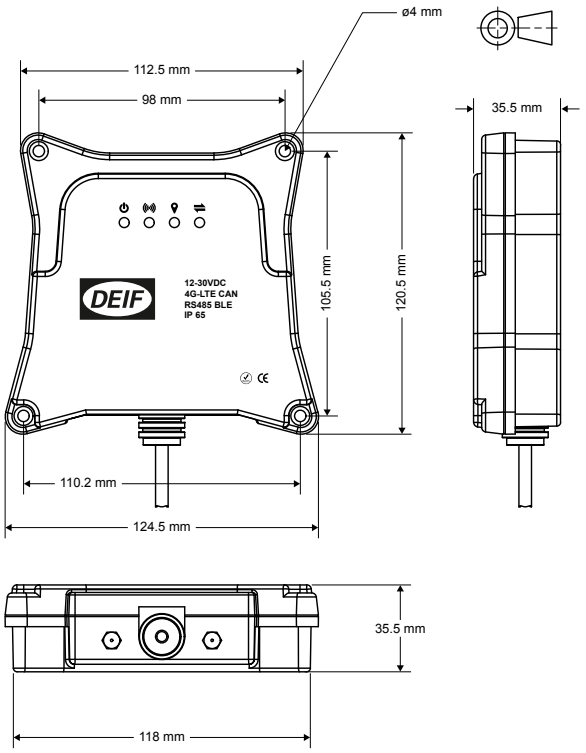
- As far as possible, avoid exposing controllers and controller networks to public networks and the internet.
- Use additional security layers like a VPN for remote access, and install firewall mechanisms.
- Restrict access to authorised persons.

2. Technical specifications

2.1 Dimensions

Specification	Pluto 313	Venus 511
Dimensions (L×W×H, mm)	104 × 91 × 36	120 × 115 × 35
Harness	4 Pin	12 Pin





2.2 Power supply

Specification	Pluto 313	Venus 511
Supply voltage	12–30 V DC	12–30 V DC
Max supply voltage	30 V DC	30 V DC
Reverse polarity	0 to -30 V DC	0 to -30 V DC
Max operating current	<100 mA	<100 mA
Peak operating current	2A (network)	2A (network)
Backup battery	-	800 mAh, Li-Ion 3.7 V

2.3 Interfaces

Specification	Pluto 313	Venus 511
RS485	1	1
CAN	-	1
Digital input	-	2 (0 - 30 V)
Digital output	-	1 (500 mA, 60 V)
Analogue input	-	2 (0–30 V) single wire
Counter input	-	1 (0–1000 Hz)
Hour meter	-	1

2.4 Communication

Specification	Pluto 313	Venus 511
Cellular	4G- LTE-FDD B1/B3/B5/B8	4G- LTE-FDD B1/B3/B5/B8

Specification	Pluto 313	Venus 511
	LTE-TDD B34/B38/B39/B40/B41 2G- GSM 900 MHz/1800 MHz	LTE-TDD B34/B38/B39/B40/B41 2G- GSM 900 MHz/1800 MHz
Bluetooth	BLE 4.2	BLE 4.2
GNSS	GPS, GLONASS, BeiDou, Galileo, QZSS	GPS, GLONASS, BeiDou, Galileo, QZSS
Network protocol	TCP/IP, MQTT	TCP/IP, MQTT
GNSS antenna	External	External
Cellular antenna	External GSM	External GSM
SIM type	Micro	Micro

2.5 Memory

Specification	Pluto 313	Venus 511
Capacity	1000 strings	64 MB

NOTE Defined as number of stored data records (strings), with a maximum capacity of 1000 entries.

2.6 Environmental

Specification	Pluto 313	Venus 511
Operating temperature	-40 to +85 °C	-40 to +85 °C
Operating humidity	85% RH	85% RH
Vibration	2g, 10 to 150 Hz	2g, 10 to 150 Hz
Ingress protection (IP)	IP65	IP65

2.7 Configuration

All DEIF Smart Remote models support web-based configuration and firmware-over-the-air (FOTA) updates. Devices can be configured, managed, and updated remotely via a centralised provisioning system, with setup tasks such as network configuration, protocol selection, and I/O mapping performed through a secure web interface.

The gateways are compatible with DEIF Smart Equip (web and mobile) and DEIF Smart Diagnostic applications, providing real-time access to asset data, alarms, and reports. This enables monitoring, diagnostics, and remote control of equipment from smart-phones, tablets, or web-based dashboards.

2.8 Approvals

All DEIF Smart Remote gateway models are CE approved and comply with relevant industrial standards for safety and electromagnetic compatibility.

3. Ordering information

3.1 Product information

Product	Item no.
DEIF Smart Remote Pluto 313	2998600010.01
DEIF Smart Remote Venus 511	2998600010.02

3.2 Disclaimer

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