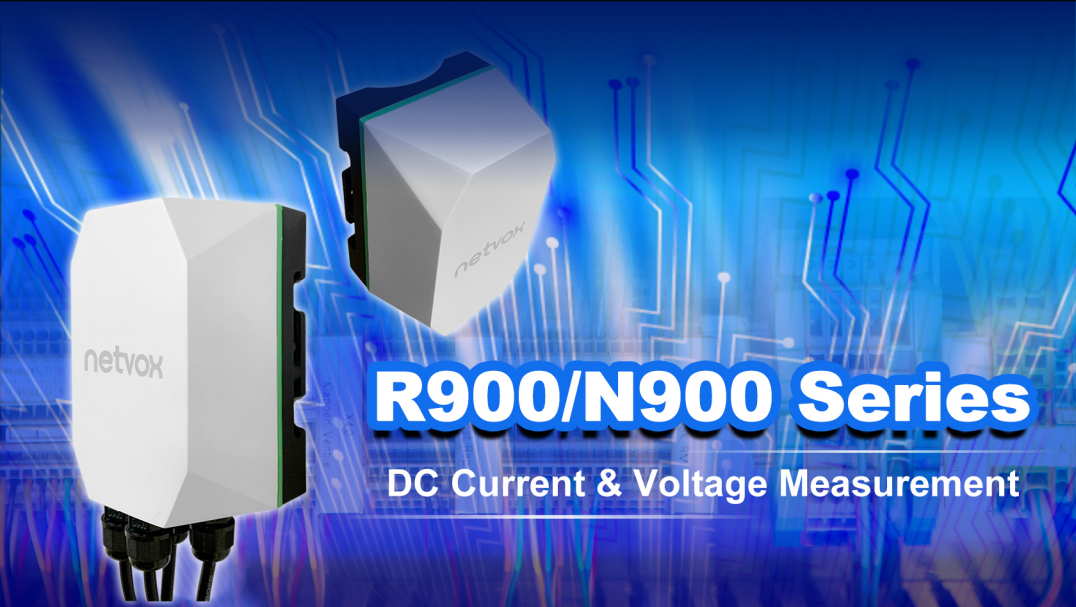
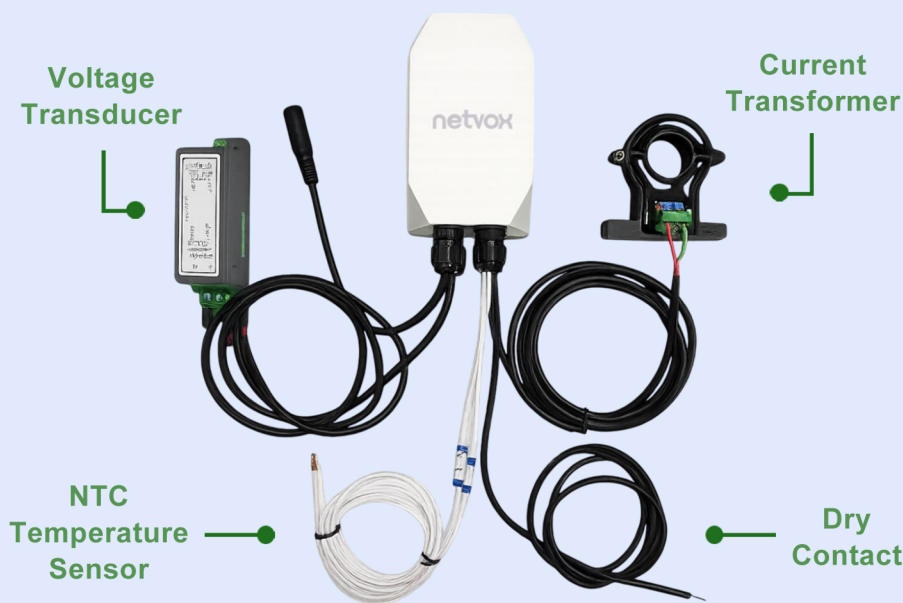




R900/N900 Series

DC Current & Voltage Measurement

R900CD01



The **R900CD01 series** is a series of multifunctional LoRa wireless devices designed for DC current and voltage monitoring.

It supports flexible configuration of **2 current channels** , **2 voltage channels** , or **1 current + 1 voltage channel** , along with **1 or 2 NTC inputs** and **1 dry contact**.

Local current, voltage, and temperature readings can be linked to trigger the local **DO dry contact output** for intelligent control.

Voltage Transducer

(Supports 0 to 2 inputs)

⚡ 0 VDC to 1000 VDC

* Available for customization

Current Transformer

(Supports 0 to 2 inputs)

⚡ 0A to 200A

⚡ 0A to 500A

⚡ 0A to 1000A

(Only support DC current & voltage measuring)

NTC Temperature Sensor

(Supports 1 to 2 inputs)

🌡️ - 40°C to 125°C

New Features

-  Support 7 Different Mounting Types
-  NFC App For Easy Configuration
-  Large Memory for 10000 Packets of Data
-  Connected 4G Camera for IoT Visualization
-  Optional Transmission Protocols

See, Hear and Link



When the R900CD01 Series detects current exceeding or falling below their thresholds...



WA08

Wifi / 4G Camera



R603

Wireless Customized
Voice Announcer



3rd-party device



See

Capture and send
image of objects.



Hear

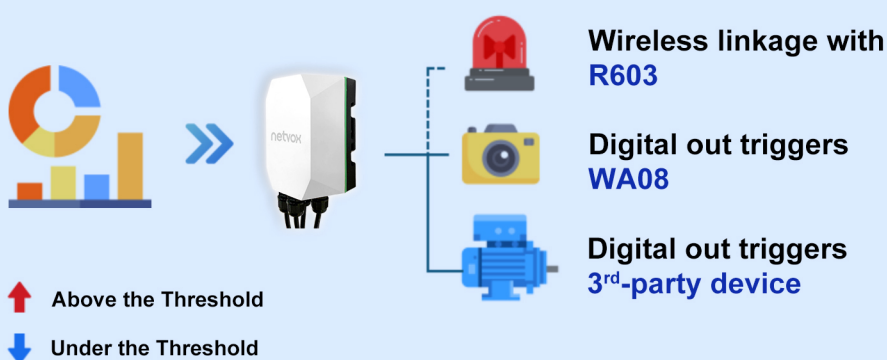
Sound custom
alarm to notify
people.



Linkage

Get 3rd-party device
connected through
digital out.

Threshold Alarm

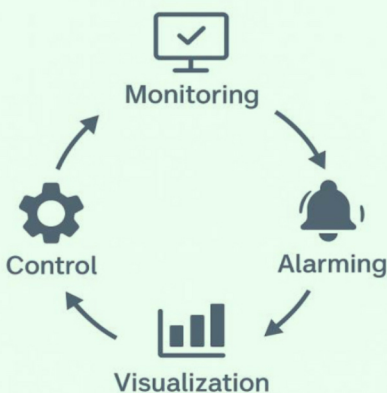


Application Scenarios

Smart DC Current & Voltage Monitoring for Solar Power Systems

With the rapid growth of solar and distributed PV systems, aging components, loose connections, and voltage fluctuations can cause inverter shutdowns and reduced generation efficiency.

The combination of **R900CD01 + R603 + WA08A** forms a complete loop of **Monitoring** → **Alert** → **Visualization** → **Control**. It provides a reliable, low power LoRa based monitoring solution to make every watt of solar energy safer and more efficient.



Typical Applications:

Application Area:

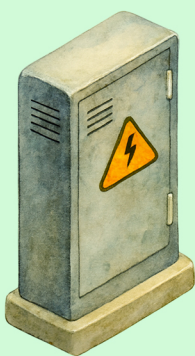
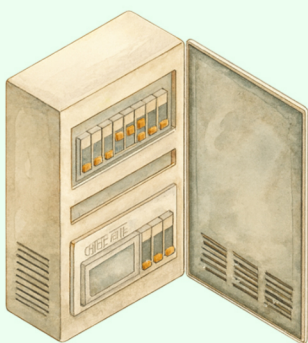
Combiner Box / DC Distribution

Monitoring Items:

Abnormal voltage or current per string

Triggered Actions:

R603 Alarm + **WA08A** Snapshot Upload



Application Area:

Inverter Input Side

Monitoring Items:

Power loss / over voltage

Triggered Actions:

R603 Alarm + **DO** cut off for protection

Application Area:

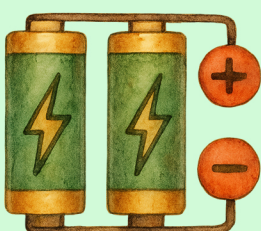
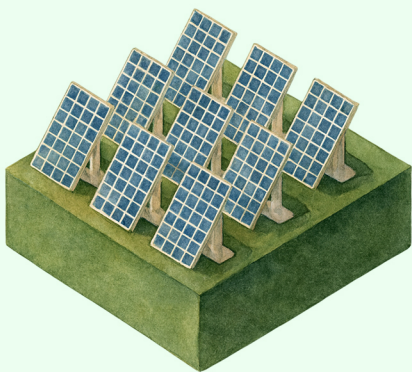
PV String Level

Monitoring Items:

Missing or imbalanced string

Triggered Actions:

APP alert + Image record



Application Area:

Battery Input (ESS)

Monitoring Items:

Charging/discharging status

Triggered Actions:

Early warning + Data upload