Advanced diagnostics for solar and battery systems

Conext™ ComBox

Schneider Electric brings a powerful analytic solution to monitor residential and off-grid solar installation performance, making life simpler for installers and system owners.

Solution at a glance

Conext™ ComBox is a true System Manager for your battery based solar installation allowing you to visualize, monitor and control.

- **Cost effective**: monitor solar system performance to ensure optimal returns and uptime.
- **Flexible**: multiple visualization options for trends and analysis as well as custom data logging for diagnostics.
- **Connected**: have your system performance data at your fingertips through emails alerts and portal access.
- **Scalable**: for large multi-cluster systems, the Conext ComBox can be setup in a master-slave configuration to monitor multiple separate Xanbus networks and supported Modbus devices, such as power meters.
- **Simple and powerful**: change or configure the settings of compatible Conext Xanbus devices through the user-interface. Modbus interface on ComBox allows you to link Conext devices with third-party systems for further diagnostic and control.

Conext™ ComBox easily connects with Conext™ Insight to enable you to remotely monitor a portfolio of sites from any web-connected device.

Homeowners can reap maximum benefits from their battery based solar installation by keeping realtime track of system performance using the Android Tablet App.
## Technical Specifications

**Conext ComBox**

### Device short name

Conext ComBox

### Electrical specifications

**Xanbus**
- Connector: 2 x RJ45
- Products Supported: Conext™ XW+, SW, MPPT 60-150, MPPT 80-600, AGS, SCR Battery monitor

**Ethernet**
- Connector: 1 x RJ45, 10 / 100 MBPS
- Server: FTP, Web, Modbus TCP/IP slave, SMTP, SNTP, Auto discovery: DPWS

**RS485**
- Modbus (1 x Connector: Screw 5-terminal, 16-24AWG, 2-wire serial, 19200 bps)
- Xanbus When connected to Conext™ XW+ or MPPT 80 600
- RS485 connector 24 Vdc input(safety extra low-voltage only)

### Communication Interfaces

**Data Interfaces**
- USB 2.0-Host Connector: USB-A, Protocols: MSD (firmware upgrades and device locator)
- USB 2.0-Device Connector: USB-mini B, Protocols: MSD (data extraction)

### Power supply options

**Power consumption**
- <2 W typical / 10 W peak

**Xanbus**
- When connected to Conext™ XW+ or MPPT 80 600

### Memory

**Internal**
- 96 MB flash

**External**
- Micro-SD Card (2GB or more, class 2 or better recommended)

**Conext ComBox Android tablet application**
- Minimum Android version 4.0 (Ice Cream Sandwich), download via Google Play

**Hardware**
- Minimum tablet screen size (*: 1024 x 600, e.g. Acer Iconia Tab A100, Acer Iconia Tab A500, Google Nexus 7, Asus Transformer TF700T, Samsung Galaxy Tab 2 10.1)

### General specifications

**Weight**
- 0.25 kg (0.55 lb)

**Dimensions (H x W x D)**
- 11.4 x 16.9 x 5.4 cm (4.5 x 6.7 x 2.1 in)

**Housing/mounting system**
- ABS Plastic / DIN-rail: 35 mm, Wall-mount: 2-screw

**IP rating/mounting Location**
- IP 20, NEMA 1, Indoor only

**Status display**
- 5 x LEDs

**Temperature**
- Operating: -4 to 122 °F (-20 to 50 °C) / storage: -40 to 185 °F (-40 to 85 °C)

**Humidity**
- Operating: < 95%, non-condensing / storage: < 95%

**Part number**
- 865-1058

### Features

**Programmable dry contact relay**
- Screw 3-terminal, 16-24 AWG, NC-Com-NO, Form: Class 2, 24 Vdc 4 A max

**Graphical user interface**
- Internet Browser, Android tablet app

**Remote firmware upgrades**
- Yes (ComBox and connected compatible Xanbus devices)

**Custom datalogger**
- Yes (requires Micro-SD card)

**Warranty**
- Please refer to our website, SEsolar.com for the latest version of the warranty statement.

### Regulatory approvals

**Marking**
- CE, RCM

**EMC immunity**
- EN61000-6-1 residential / commercial

**EMC emission**
- EN61000-6-3, FCC Part 15 Class B, Ind. Canada ICES-003 Class B

**Substances/environmental**
- RoHS

Specifications are subject to change without notice. *Tablet not included

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**Conext™ ComBox communication device works with the following Schneider Electric products**

**Conext XW® Inverter/charger**
- XW 5548 NA Product no. 865-5548-01
- XW 6848 NA Product no. 865-6848-01
- XW 7048 E Product no. 865-7048-61
- XW 8548 E Product no. 865-8548-61

**Conext™ MPPT 60 150**
- solar charge controller
  - Product no. 865-1030-1

**Conext™ System Control Panel (SCP)**
- Product no. 865-1050-01

**Conext™ Automatic Generator Start (AGS)**
- Product no. 865-1060-01

**Conext™ Battery Monitor**
- Product no. 865-1080-01

**Conext™ SW inverter/charger**
- SW 2524 120 Product no. 865-2524-61
- SW 4024 230 Product no. 865-4024-61

**Conext™ SW+ H Product no. 865-6848-01HPS**
- XW+ L Product no. 865-6848-01LPS

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