# Conext **Battery Monitor**

Battery bank monitoring with battery string health detection.



## Product at a glance -

Conext<sup>™</sup> Battery Monitor indicates hours of battery-based runtime and determines battery bank state of charge. It shares key battery bank parameters with Conext™ Pro and XW+ inverter/chargers improving overall system performance of 24 V and 48 V battery banks. Detecting battery string imbalance is determined using innovative mid-point sensing technology providing time to address the issue before performance is significantly impacted.

Conext™ Battery Monitor features built-in data logging and a local display to selectively show the voltage, current, consumed amp-hours, remaining capacity, and remaining hours. The same information and battery bank data is reported by Conext™ Gateway and distributed to other Conext devices such as XW Pro or XW+ inverter chargers, MPPT Solar Charge Controllers, Automatic Generator Start module, and System Control Panel via Xanbus™ network connectivity, enhancing performance of the overall system.

Industrial and telecom customers can integrate Conext™ Battery Monitor with energy management systems over Modbus RS485.

#### Why choose Conext Battery Monitor?

### Higher return on investment

- Get the most out of battery-based Conext inverter/ charger systems
- · Cleary understand hours of available battery-based autonomy
- · Detect imbalance between battery strings before it becomes an issue

#### Designed for reliability

- · Extensive quality and reliability testing
- Highly Accelerated Life Testing (HALT)

- Stand-alone application or integration with Conext™ XW Pro or XW+ inverter charger systems
- Enables state of charge triggers for AGS module control of diesel generators
- · Enables balancing of multi-battery bank systems for large clustered Conext XW+ inverter/charger systems

#### Easy to service

- Remotely monitor, troubleshoot, or upgrade firmware with Conext Gateway
- · Built-in data logger

#### Easy to install

- · Wall-mount, DIN-rail mount, panel mount
- · RJ45 connections for Xanbus network and battery signals
- Configure with front-panel buttons, Conext™ Gateway, or RS485 Modbus

#### **Product applications**





Community electrification



Residential grid-tie solar



Off-grid solar



Self-consumption

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Conext Battery Monitor	solar.scnneider-electric.com   2
Device short name	Conext™ Battery Monitor
Electrical specifications	
Supply voltage	18 – 66 Vdc
Supply current (backlight off, logging-disabled)	80 mA @ VIN=48 Vdc, 150 mA @ VIN=24 Vdc
Input voltage range	0 – 70 Vdc
Input current range	-9999 – +9999 A
Battery capacity range	20 – 10,000 Ah
Operating temperature range	-20 - +50 °C
Displayed increments	20 100 0
Voltage	0 – 70 V (0.01 V)
Current	0 – 200 A/200 – 9999 A (0.1 A/1 A)
Amp-hours	0 – 200 Ah/200 – 99990 Ah (0.1 Ah/1 Ah)
State of charge	0 – 200 AII/200 – 99930 AII (0.1 AII/1 AII) 0 – 100% (0.1%)
	0 – 24 hrs/24 – 240 hrs (1 min/1 hr)
Time remaining	
Temperature	-20 to +50 °C (0.1 °C)
Accuracy	
Voltage measurement	+/- 0.3%
Current measurement	+/- 0.4%
Features	
Network	Protocol: Xanbus/Connectors: RJ45
USB 2.0	Protocol: MSD (data extraction) Connector: USB mini-B
Modbus	Isolated RS-485, 2-wire serial
Data logging	10 data points every 10 mins for 10 years
Display	Backlight LCD
Front-panel interface	3 menu buttons, 1 power button
Battery string imbalance detection	Two point sensing
Temperature sensor(included)	762 cm
Warranty	Please refer to our website, SEsolar.com for the latest version of the warranty statement.
General specifications	
Product dimensions (H x W x D)	8.5 x 8.5 x 9.0 cm (3.3 x 3.3 x 3.5 in)
Product/shipping weight	0.2 kg (0.4 lb)/1.95 kg (4.3 lb)
Mounting options	Panel-mount, wall-mount, DIN rail: 35 mm
IP rating/location	IP 20, NEMA 1, indoor only
Storage temperature range	-30 – +70 °C
Part number	865-1080-01
Battery interface kit with shunt (included	
Connection to battery	300 cm cable with ring terminals
Connection to battery monitor	500 cm CAT5 cable RJ45
Shunt	500 A/50 mv
Regulatory approvals	
Markings	CE, RCM, UL, CSA
Safety	IEC/EN62109-1, UL1741, CSA 107.1
EMC	Directive 2004/108/EC, IEC/EN61000-6-3, IEC/EN61000-6-1, FCC Part 15 Class B, Industry Canada ICES-003 Class E
Compatible products part numbers	
Conext XW Pro (120/240 V)	XW Pro 6848 NA: 865-6848-21
Conext XW+ (230 V)	XW 8548 E: 865-8548-61
Conext XW+ (120/240 V)	XW 6848 NA: 865-6848-01
Conext SW (230 V)	SW 4024: 865-4024-55 / SW 4048: 865-4048-55
Conext SW (120 V)	SW 4024: 865-4024-21 / SW 4048: 865-4048-21
Conext MPPT 80 600	865-1032
Conext MPPT 60 150	865-1030-1
Conext Gateway	865-0329
Conext System Control Panel	865-1050
Conext Automatic Generator Start	865-1060
Conext Configuration Tool	865-1155-01

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