Conext Battery Monitor

Battery bank monitoring with battery string health detection

ConextTM Battery Monitor indicates hours of battery based runtime and determines battery bank state of charge. Conext Battery Monitor shares key battery bank parameters with Conext XW+ inverter/chargers improving overall system performance of 24V and 48V 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 ComBox and distributed to other Conext devices such XW+ inverter chargers as well as 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?



True bankability

- Warranty from a trusted partner with over 177 years of experience
- World leader in industrial power drives, UPS and electrical distribution
- Strong service infrastructure worldwide to support your global needs



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)



Flexible

- Stand-alone application or integration with Conext 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

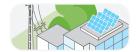
- Remotely monitor, troubleshoot or upgrade firmware with Conext ComBox
- Built-in data logger



Easy to install

- Wall-mount, DIN-rail mount, panel mount
- RJ45 connections for XanBus network and battery signals
- Configure with front-panel buttons, Conext ComBox or RS485 Modbus

Product applications



Commercial grid-tie solar with backup power



Community electrification



Residential grid-tie solar with backup power

off-grid solar



Self-consumption





Device short name	Conext Battery Monitor
Electrical specifications	Conext Battery Monitor 18 - 66 VDC
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	
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 - 100% (0.1%)
Time remaining	0 - 24 hrs / 24 - 240 hrs (1 min / 1 hr)
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	2 - 5 years (depending on country)
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 approval	
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 B

Specifications are subject to change without notice.

Conext Battery Monitor 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 SW inverter/charger

SW 2524 230 Product no. 865-2524-61 SW 4024 230 Product no. 865-3524-61 SW 2524 120 Product no. 865-2524 SW 4024 120 Product no. 865-3524



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



Conext MPPT 80 600 solar charge controller Product no. 865-1032



Conext Combox communication device Product no. 865-1058



Conext System Control Panel Product no. 865-1050-01



Conext Automatic Generator Start Product no. 865-1060-01