

Conext Battery Monitor

Battery bank monitoring with battery string health detection

Conext™ 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 as 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 178 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
- Clearly 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



Backup power



Residential grid-tie solar with backup power



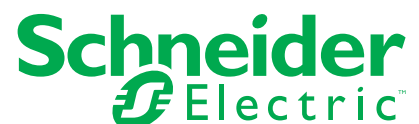
off-grid solar



Community electrification



Self-consumption



| | |
|--|--|
| 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 | |
| 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 |
| 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, C-Tick |
| 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. 865-4024-61
 SW 2524 120 Product no. 865-2524
 SW 4024 120 Product no. 865-4024



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