Conext **Battery Monitor**

Battery bank monitoring with battery string health detection.



Product at a glance -

Conext[™] 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 |
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| 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) |
| · · · · · · · · · · · · · · · · · · · | -20 t0 +30 °C (0.1 °C) |
| Voltage measurement | +/- 0.3% |
| Voltage measurement Current measurement | +/- 0.4% |
| Features | 1/- 0.4/0 |
| 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 Backlight LCD |
| Display 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 | Trease refer to our website, obsolation for the latest version of the warranty statement. |
| · | 95 x 95 x 9 0 om /2 2 x 2 2 x 2 5 in) |
| 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) Panel-mount, wall-mount, DIN rail: 35 mm |
| Mounting options | |
| IP rating/location | IP 20, NEMA 1, indoor only -30 – +70 °C |
| Storage temperature range | |
| 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 | OF DOM III OCA |
| 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 |
| Compatible products part numbers | VM Dec COAO NA, OCE COAO OA |
| 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 MPRT 90 600 | 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 |

Schneider Electric
Head Office
35 rue Joseph Monier
92500 Rueil-Malmaison, France
Tel: +33 (0)1 41 29 70 00
solar.schneider-electric.com

