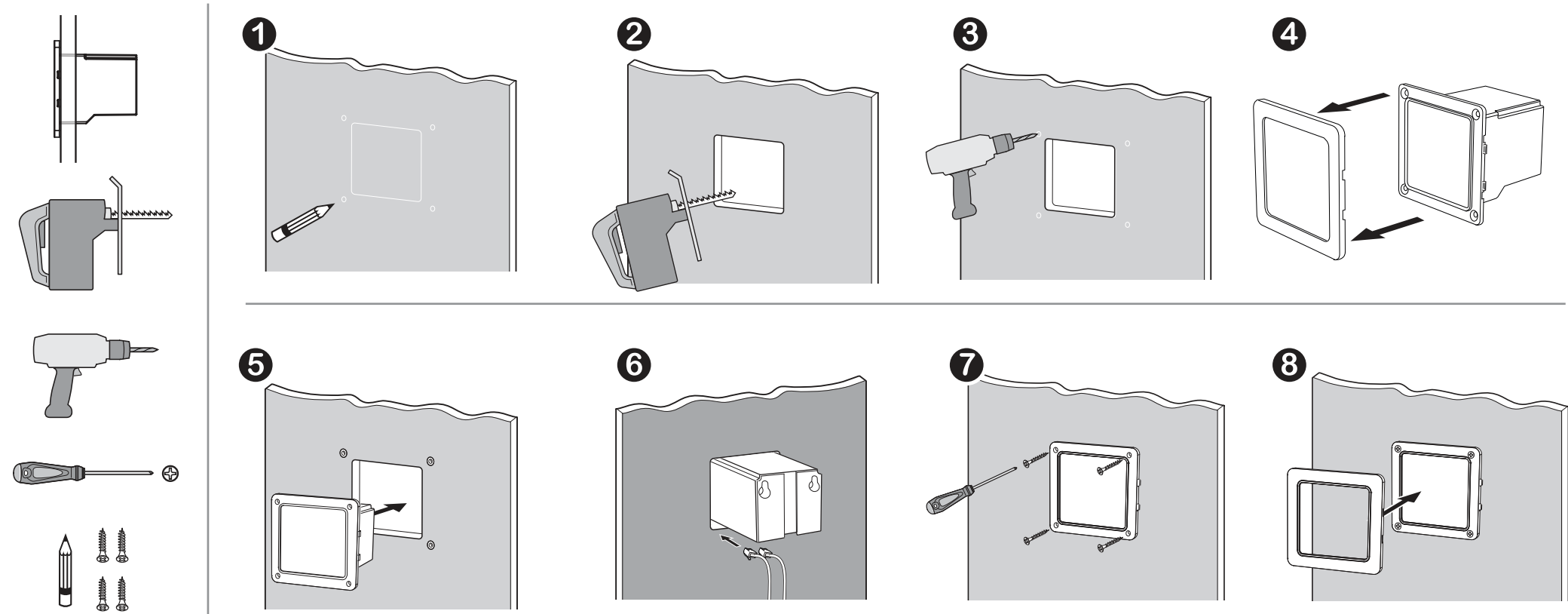
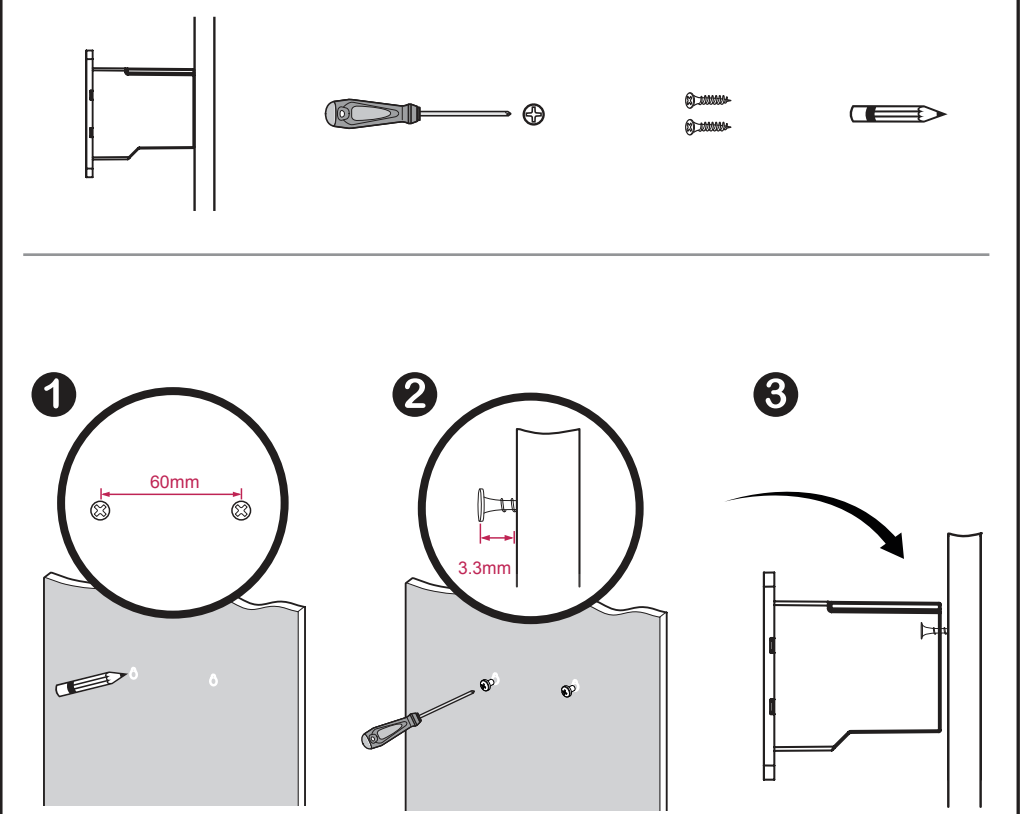


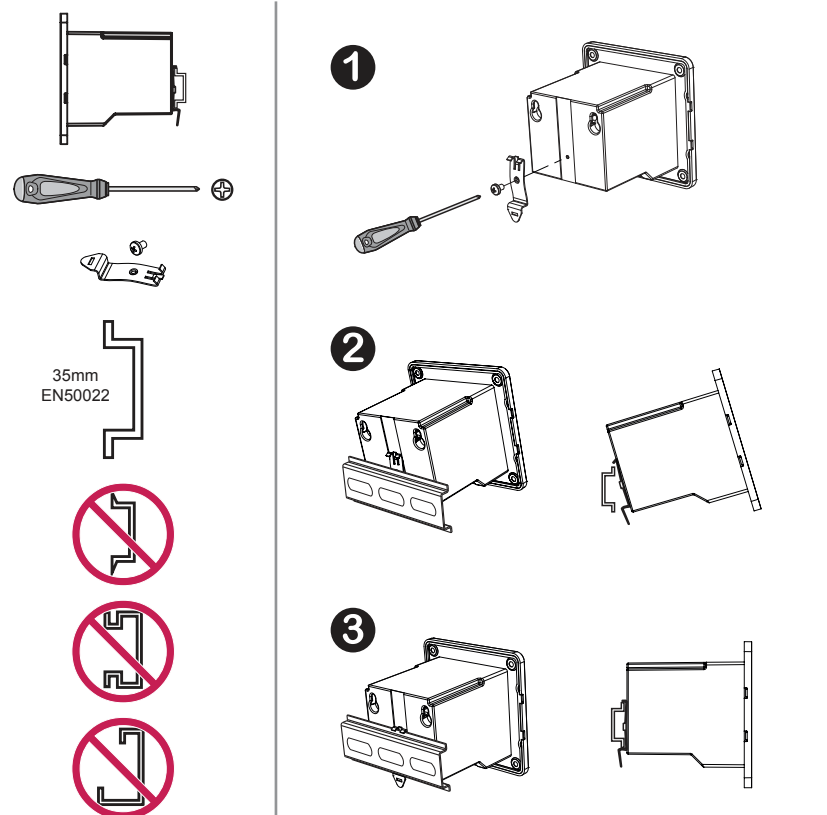
D1 Panel Mounting



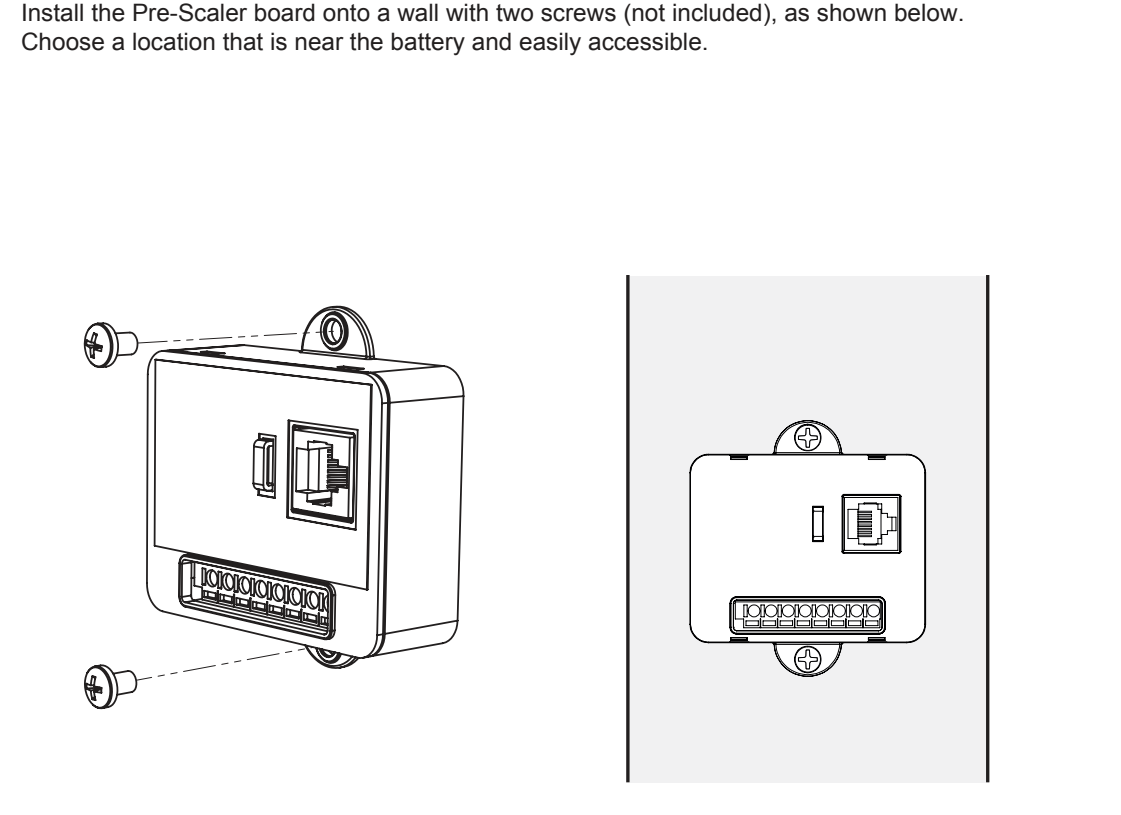
D2 Wall Mounting



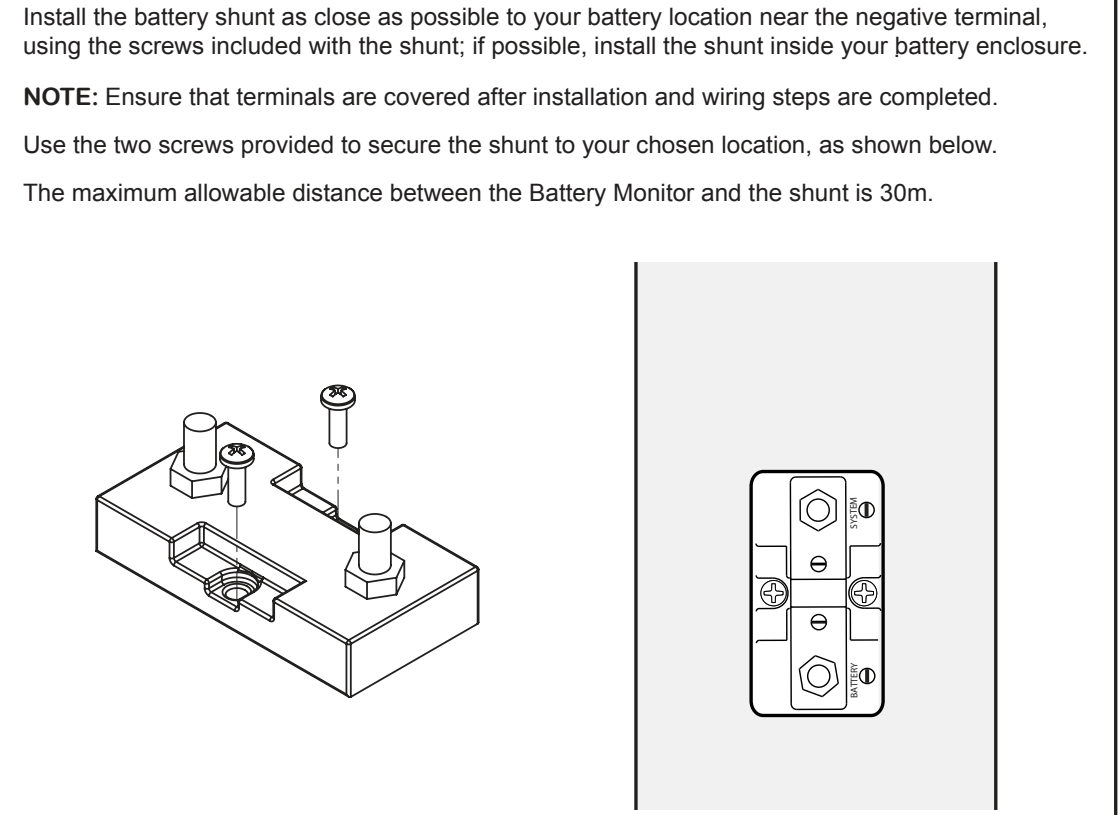
D3 DIN Rail Mounting



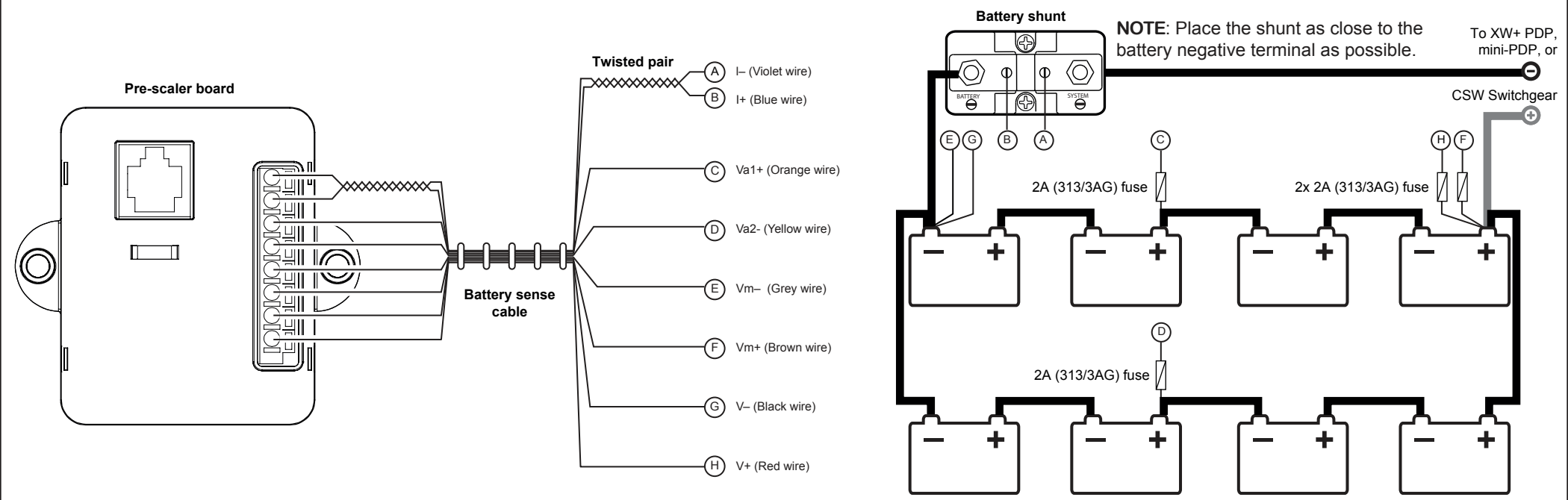
E1 Pre-Scaler Board Mounting



E2 Battery Shunt Mounting

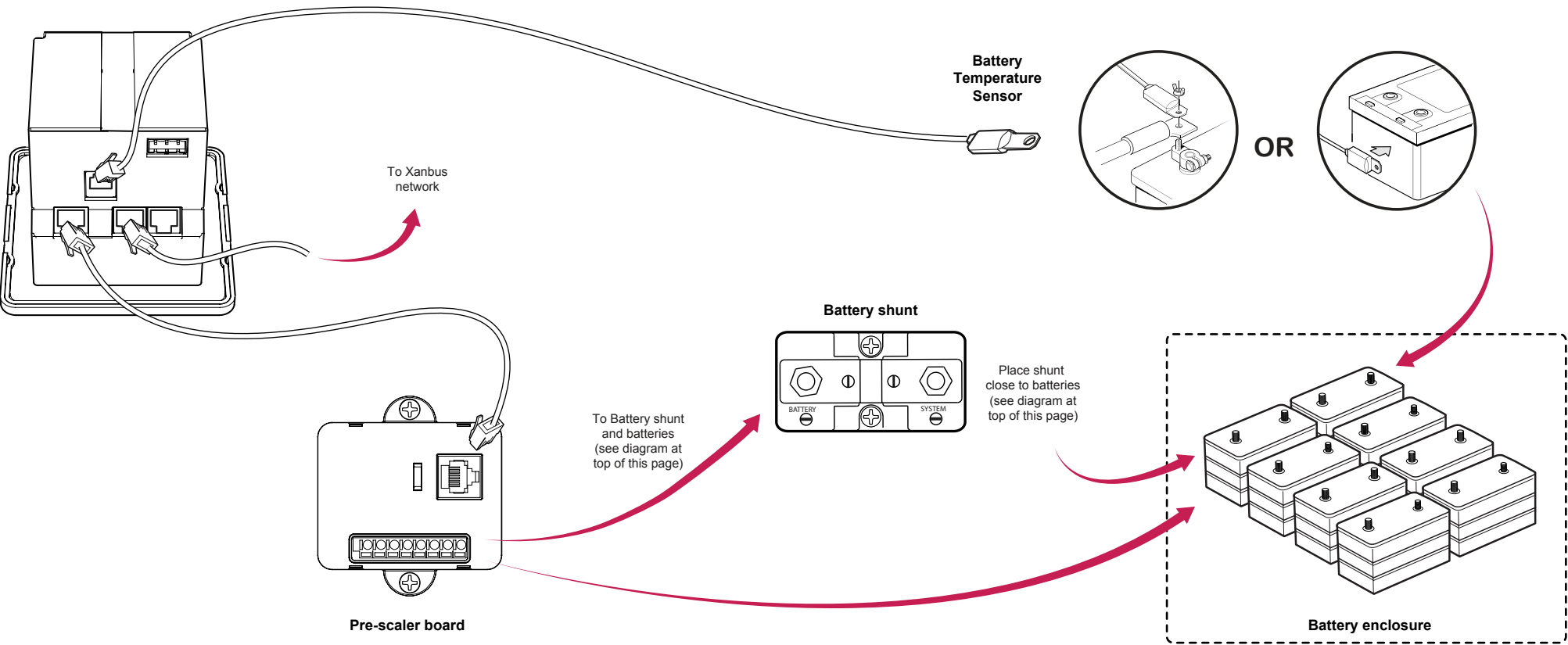


F Cable Connections



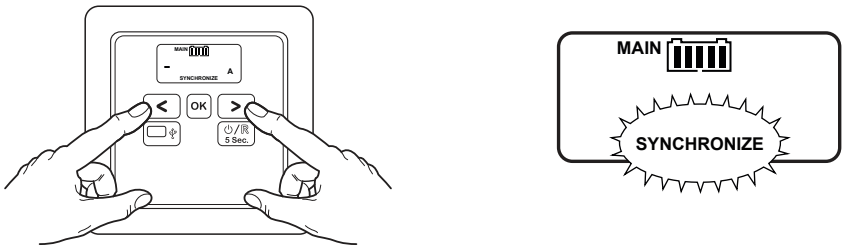
To wire the Battery Monitor:

- 1 Connect the battery sense cable wires to the battery terminals, as shown above.
- 2 Wire the battery shunt to the battery, as shown above.
- 3 Install 2A (313/3AG) fuses as close to the battery terminals as possible, as shown above.
- 4 Connect the Battery Temperature Sensor to the battery bank, as shown below.
- 5 Connect Xanbus cables to your Xanbus network and Pre-scaler cable (orange) to the pre-scaler board, as shown below.



G Synchronize

SYNCHRONIZE
Hold the **<** and **>** buttons until **SYNCHRONIZE** flashes on the display screen.



NOTE: Before synchronizing the Battery Monitor to a state of charge of 100%, charge the batteries completely and allow the batteries to remain in float state for two hours or longer after first installation.

H Menu Navigation

NAVIGATION BUTTONS
Use the navigation buttons on the Conext Battery Monitor to scroll through menu screens, check battery status and change configuration settings.



MAIN MENU
Enter the Main menu by holding **OK** for three seconds, until **StAt** appears on the display screen. From the Main menu, you can navigate to different menus, including the Function menu (see Function Menu, below).



For information about other menus, see the *Conext Battery Monitor Owner's Guide* available at <https://solar.schneider-electric.com/product/conext-battery-monitor>.

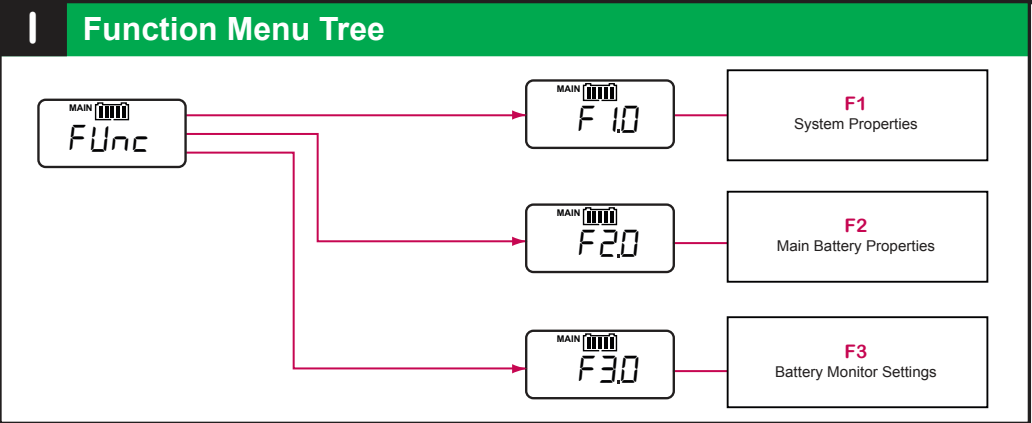
FUNCTION MENU
From the Main menu, enter the Function menu by pressing **>** twice, until **FUnc** appears on the display screen.



Use **<** and **>** buttons to browse through the different Functions. Press **OK** to view the selected Function value.

Use **<** and **>** to change the value. Press **OK** again to return to the Function menu.

DISPLAY MODE
Access the Display Mode from any menu item by pressing **OK** for three seconds. This will save any Function value changes to internal memory. When no navigation buttons are pressed for 90 seconds while operating in the Function menu, the Battery Monitor will automatically return to the Display Mode without saving any Function value changes.



J Essential Settings

Function	Default	Min	Max	Description
F1.0 Float voltage	52.8V	16V	64V	Battery charger's float voltage, which is the last stage of the charging process.
F1.3 Discharge floor	50%	0%	99%	Reference point at which the battery needs to be recharged. When SOC< this value the Charge battery indicator starts flashing, the time remaining shows 0:00 & SOC bar is empty.
F2.0 Battery Capacity	200Ah	20Ah	9990Ah	Battery's capacity in Amp-hours (Ah)
F2.1 Nominal Discharge Rate	20h	1h	20h	The discharge rate (in hours) at which the battery manufacturer rates your battery's capacity.
F2.2 Nominal Temperature	20°C	0°C	40°C	The temperature at which the battery manufacturer rates the battery's capacity.
F3.1 Shunt Amp Rating	500A	10A	9000A	Amp rating of connected shunt
F3.2 Shunt milliVolt Rating	50mV	50mV	60mV	Battery monitor supports only 50mV and 60mV shunts
F3.3 Backlight mode	30s	OFF/5s	300s/ON	Period of backlight activation in seconds after key-press
F3.4 Temperature unit	°C	°C	°F	Select display between °C/°F
F3.5 Setup lock	OFF		ON	When set to "ON", all Push buttons on physical unit is locked

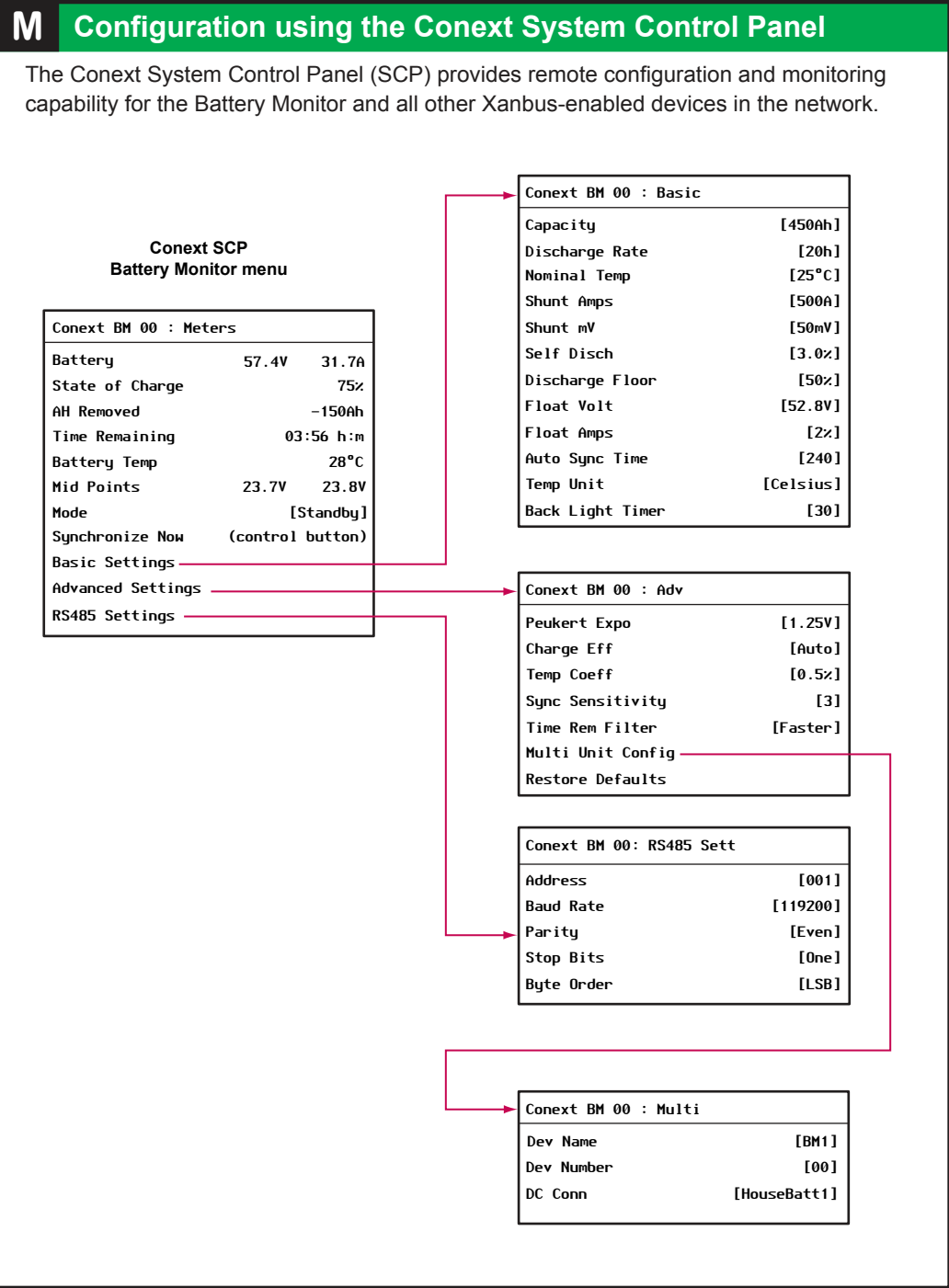
K Advanced Settings

Function	Default	Min	Max	Description
F1.5 Time remaining averaging filter	1	0	2	Represents effect of reducing battery capacity at higher discharge rates.
F2.3 Temperature coefficient	0.50% cap/°C	0.01	1.00%cap/°C	Percentage that battery's capacity changes with temperature.
F2.4 Peukert's exponent	1.25	1.00	1.50	Represents effect of reducing battery capacity at higher discharge rates. Set to 1 for Lithium-based batteries.
F2.5 Self-discharge rate	3.0% /month	OFF /	25.0% /month	Rate at which the battery loses capacity by itself, when it is not used. Set to OFF for Lithium-based batteries.
F2.6 Charge Efficiency Factor	Au	50%	Au	Ratio between the energy removed from a battery during discharge & the energy used during charging to restore original capacity.

L Modbus Settings

Modbus settings on your Battery Monitor are not configurable via the Function menu. These settings can be configured with a Conext System Control Panel, ComBox or Conext Configuration Tool:

Modbus Setting	Default	Min	Max
RS485 Address	200	1	255
RS485 Baud Rate	19200	9600	115200
RS485 Parity	Even	Odd	None
RS485 Stop Bits	1	1	2
Modbus Byte Order	LSB First	LSB	MSB



N Compatible Products by Schneider Electric

• Conext XW+ 5548 NA / Conext XW+ 6848 NA	• Conext MPPT 80 600
• Conext XW +7048 E / Conext XW + 8548 E	• Conext SCP
• Conext SW 2524 230 / Conext SW 4024 230	• Conext AGS
• Conext SW 2524 120 / Conext SW 4024 230	• Conext ComBox
• Conext MPPT 60 150	

Exclusion for Documentation

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O Technical Specifications

Parameter	Conext Battery Monitor
Electrical Specifications	
Supply Voltage	18 to 66 VDC
Supply Current*	80 mA @ VIN=48 VDC, 150 mA @ VIN=24 VDC
Power Consumption	<4W
Input Voltage Range (main batt.)	0 to 70VDC
Input Voltage Range (aux. batt.)	2 to 70VDC
Input Current Range	-9999 to +9999A
Battery Capacity Range	20 to 9990Ah
Operating Temperature Range	-20 to +50°C
* (Backlight off, logging disabled)	
Resolution	
Voltage	0 to 70 (+0.01 V)
Current	0 to 200A / 200 to 9999A (+0.1A / +1A)
Amp-Hours	0 to 200AH / 200 to 9990Ah (+0.1Ah / +1Ah)
State-of-charge	0 to 100% (+0.1%)
Time Remaining	0 to 24hrs / 24..240hrs (+ 1 minute / + 1hr)
Temperature ()	-20 to +50°C (+ 0.5°C)
Accuracy	
Voltage Measurement	+/- 0.3%
Current Measurement	+/- 0.4%
Connections	
Battery Voltage, Shunt/Temp Sensor	RJ45 / RJ12 (cables included)
USB 2.0 – Device	Connector: USB min-B, Protocols: MSD (data extraction)
Features	
Network	Protocol: Xanbus / Connectors: RJ45
USB 2.0	Protocol: MSD (data extraction) Connector: USB min-B
ModBus	Isolated RS-485, 2-wire serial
Data Logging	10 data points every 10 minutes for 10 years
Display	Backlit LCD
Front-panel interface	3 menu buttons, 1 power button
Battery string-imbalance detection	Two-point sensing
Temperature Sensor (included)	762cm
Warranty	2 to 5 years (depending on country)
Mechanical Specifications	
Dimensions	8.5 x 8.5 x 9.0cm
Weight	0.2kg
IP Rating/Mounting location	IP 20, NEMA 1, Indoor Only
Storage Temperature Range	-30 to +60°C
Part number	865-1080-01
Battery Interface Kit with Shunt (Included)	
Connection to Battery	300cm cable with ring-terminals
Connection to Battery Monitor	500cm CAT5 cable RJ45
Shunt	500A / 50mv
Shunt Dimensions	8.7 x 4.5 x 3.5 cm
Shunt Weight	0.15 kg
Regulatory Standards	
Markings	CE
EMC	Directive 2004/108/EC, IEC/EN61000-6-3, IEC/EN61000-6-1, FCC Part 15 Class B, Industry Canada ICES-003 Class B