

EMS HARDWARE

EMS Installation Manual

ARQ Controls EMS hardware setup and commissioning guide.

ARQ CONTROLS · INDUSTRIAL ENERGY CONTROL

MODBUS

Commissioning

Congratulations on your ARQ Controls EMS unit. Follow the three steps below carefully to ensure correct installation and commissioning.

Step 1: Power

Power the device from the included 12 V DC UPS to ensure stable power to the unit.

Step 2: Ethernet

Connect Ethernet to LAN1 before applying any power to the unit. Once power is applied, the unit turns on automatically.

Step 3: Commission

Contact the ARQ Controls Support Team at info@arqcontrols.com, who will then remotely commission the system.

Have ready when you contact support

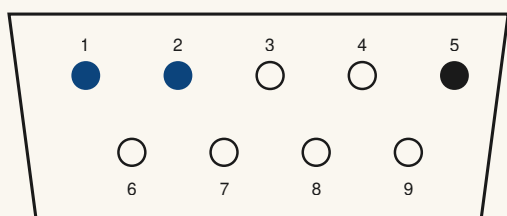
- Storage inverter brand and model, plus the quantity of storage inverters to be brought online.
- Battery details.
- COM port number used for RS485 comms.
- AC-coupled (grid-tied) information if applicable: brand and model; communication method (RS485, TCP, or Data Manager); connection point (load side or bypass cabinet).

Connecting the RS485 interface

Use the supplied DB9 to Phoenix Terminal adapters. Close the adapter and ensure the screws are in place to secure the adapter to the unit.

DB9 pinout

PIN	SIGNAL
Pin 1	RS485 (A)
Pin 2	RS485 (B)
Pin 5	Ground



● Pin 1 = RS485 A, Pin 2 = RS485 B ● Pin 5 = Ground

FIGURE: DB9 TO RS-485 PIN ASSIGNMENT

Connection example

FIGURE: RS485 CONNECTION AND ADAPTER EXAMPLES

Photographs of the DB9 to Phoenix Terminal adapter fitted to the unit and the completed RS485 connection. Clean screenshot to be supplied.

FOR FURTHER ENQUIRIES

info@arqcontrols.com | arqcontrols.com | Oceanside, CA

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