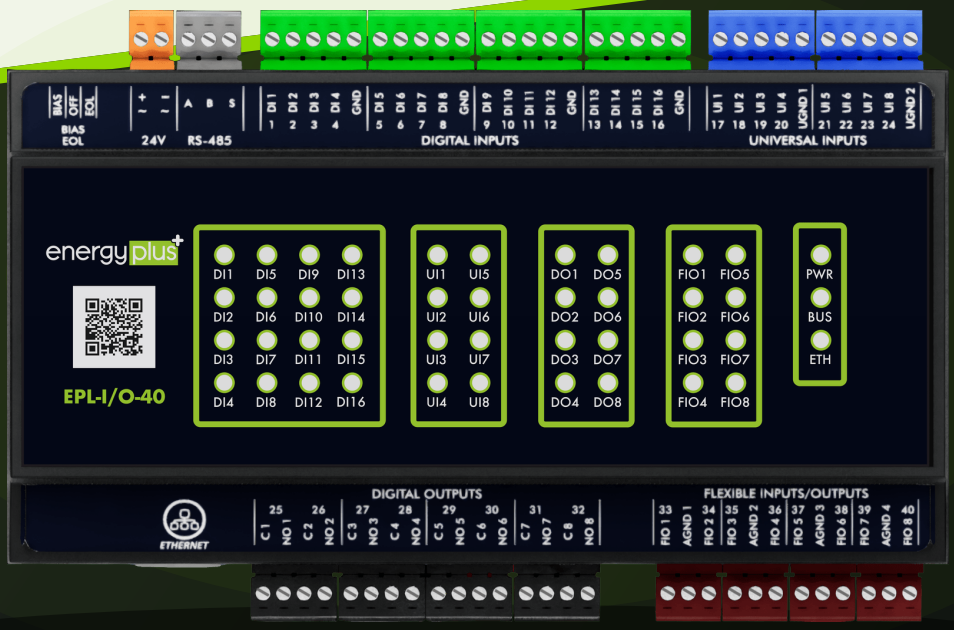
energyplus

EPL-I/O-40

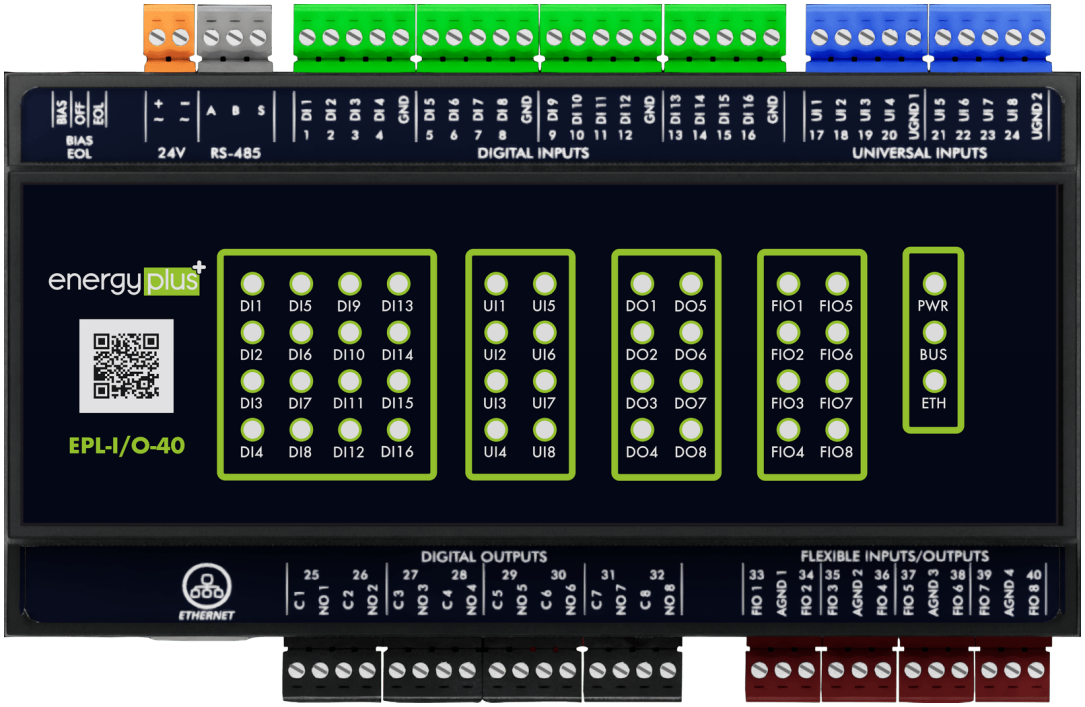
Quick Start Guide

Remote I/O commissioning summary

Firmware V2.0.2 | October 2026



EPL-I/O-40 is a 40-point remote I/O module that brings field I/O points to a Modbus or BACnet supervisory system.



Purpose

This form is a short checklist for commissioning the EPL-I/O-40 device on site for the first time. For detailed register, BACnet object, channel mode and protocol parameters, use the datasheet and the user manual.

Safety and Pre-Checks

Check	Description
Authorized personnel	Mounting and commissioning must be performed by authorized technical personnel.
Power state	Disconnect power from the device before making terminal connections.
Power supply	Use a 24 Vac ±20% or 21..30 Vdc power supply.
Cabinet environment	Mount the device inside a control cabinet suitable for its IP20 enclosure protection.
Label check	Verify the product name, serial number and Ethernet MAC address on the product label.

Quick Commissioning Sequence

1. Seat the device on the DIN rail and check that the mechanical latch holds firmly.
2. Connect the power supply line and the site grounding arrangement according to the project electrical drawing.
3. Connect the Ethernet cable and, if required, the RS-485 field line.
4. Complete the DI, DO, UI and FIO terminals according to the wiring diagram.
5. Power up the device; check that the PWR LED on the front panel is lit.
6. Place the service computer on the same IP network as the device and verify the Ethernet link by accessing the web interface.

7. Log in with the initial access credentials supplied with the device and change the administrator password.
8. Set the channel modes, analog ranges, communication loss timeout and output defaults.
9. Select the protocol to use: Modbus or BACnet.
10. Run a live read/write test from the supervisory system and take the project handover records.
11. When commissioning is complete, disable BLE from the security page of the web interface.

Factory Network and Label Information

Item	Value
Default IP address	192.168.1.160 (static)
Subnet mask / gateway	255.255.255.0 / 192.168.1.1
Local network name (mDNS)	epl-io-40.local
Ethernet MAC address	Device-specific; verify it in the Eth. MAC Address field on the product label.
Serial number	Device-specific; verify it in the S/N field on the product label.

For first access, place the service computer on the same IP network. If the device IP settings have been changed, verify them against the site records or the product label.

First Access

Topic	Procedure
Web interface	Connect from a browser to http://192.168.1.160 or, on the same network, to http://epl-io-40.local.
Factory network setting	Static IP 192.168.1.160, subnet 255.255.255.0, gateway 192.168.1.1, DNS automatic.
Initial access credentials	Supplied with the device. Change the administrator password at the first login.
Session	Valid for 60 minutes after the last activity; a new login ends the previous session.
BLE	Enabled by factory default; the device appears as EPL-I/O-40-XXXX. Network, protocol and channel settings can be made with the mobile app.
IP change	After the IP is changed, write the new address on the site handover form.

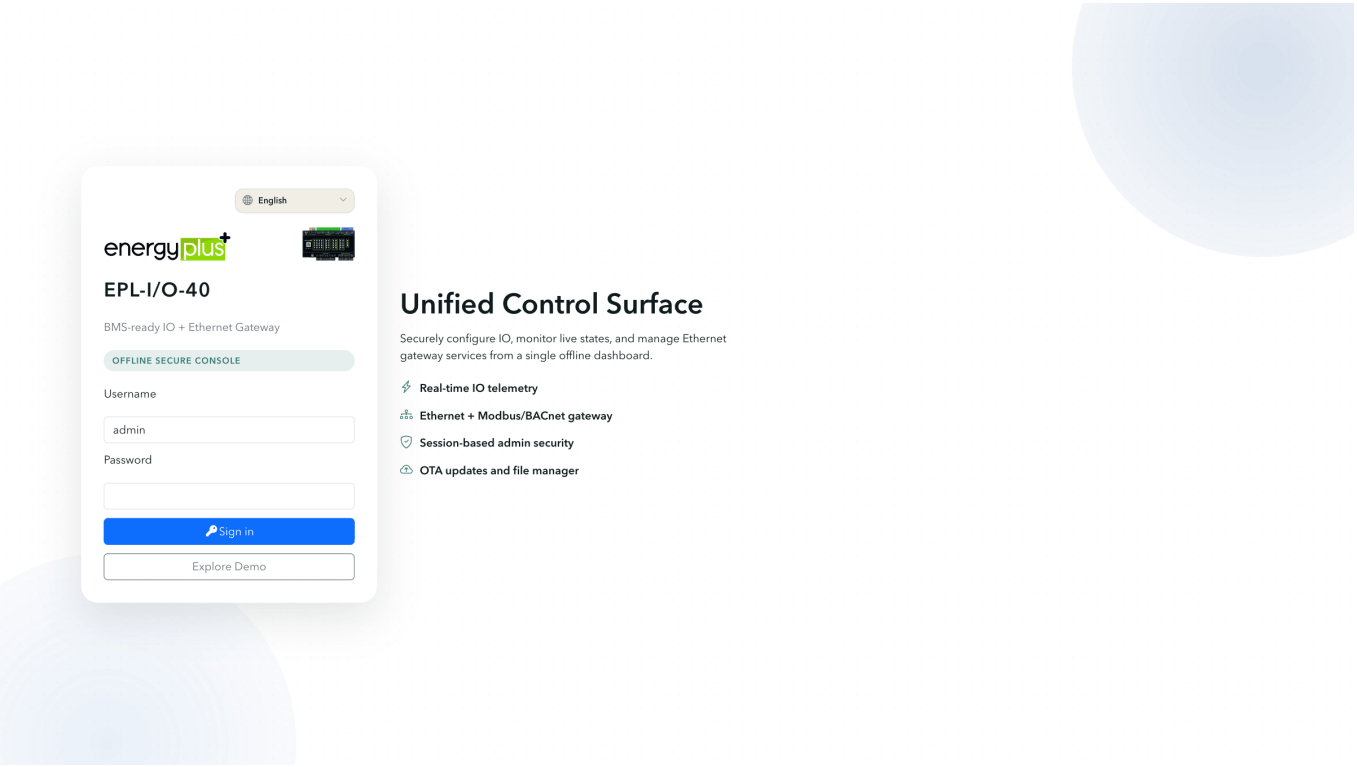


Figure 1. Web interface: login

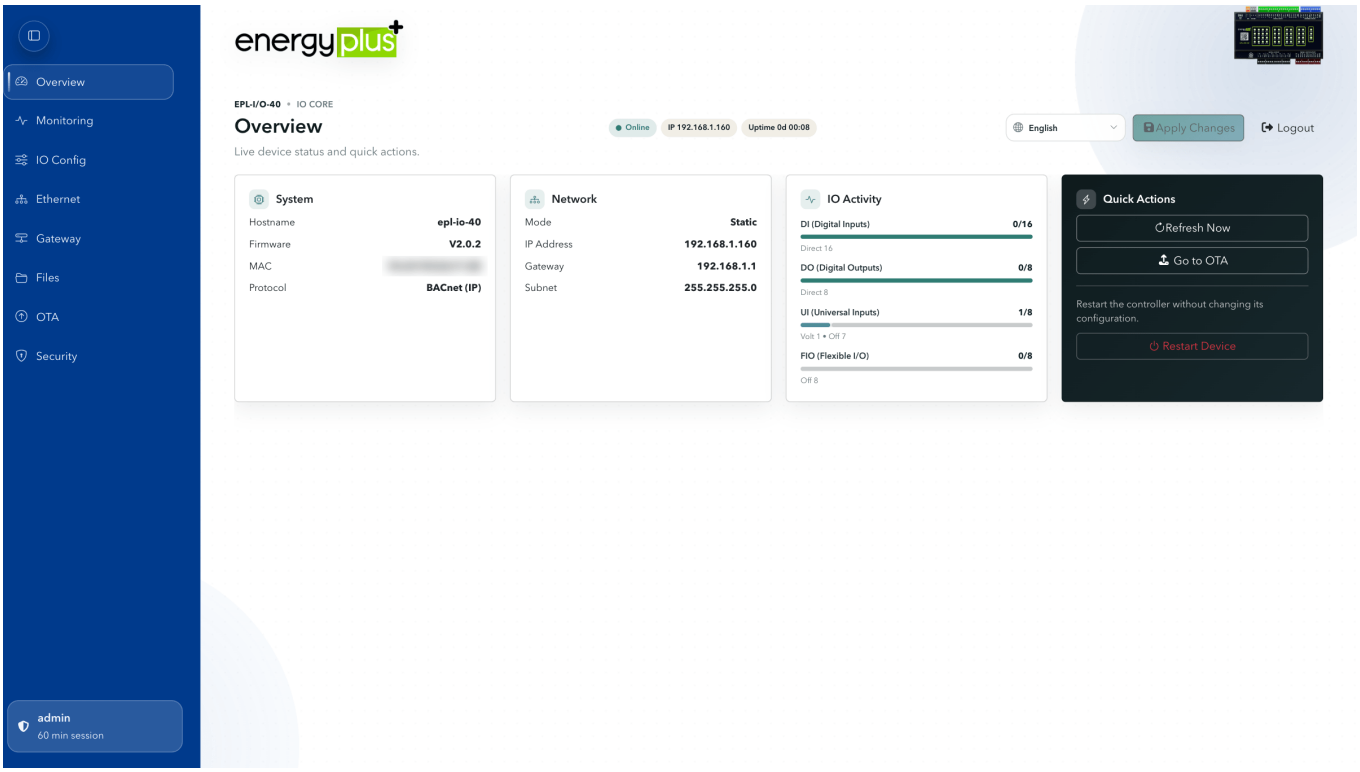


Figure 2. Web interface: overview

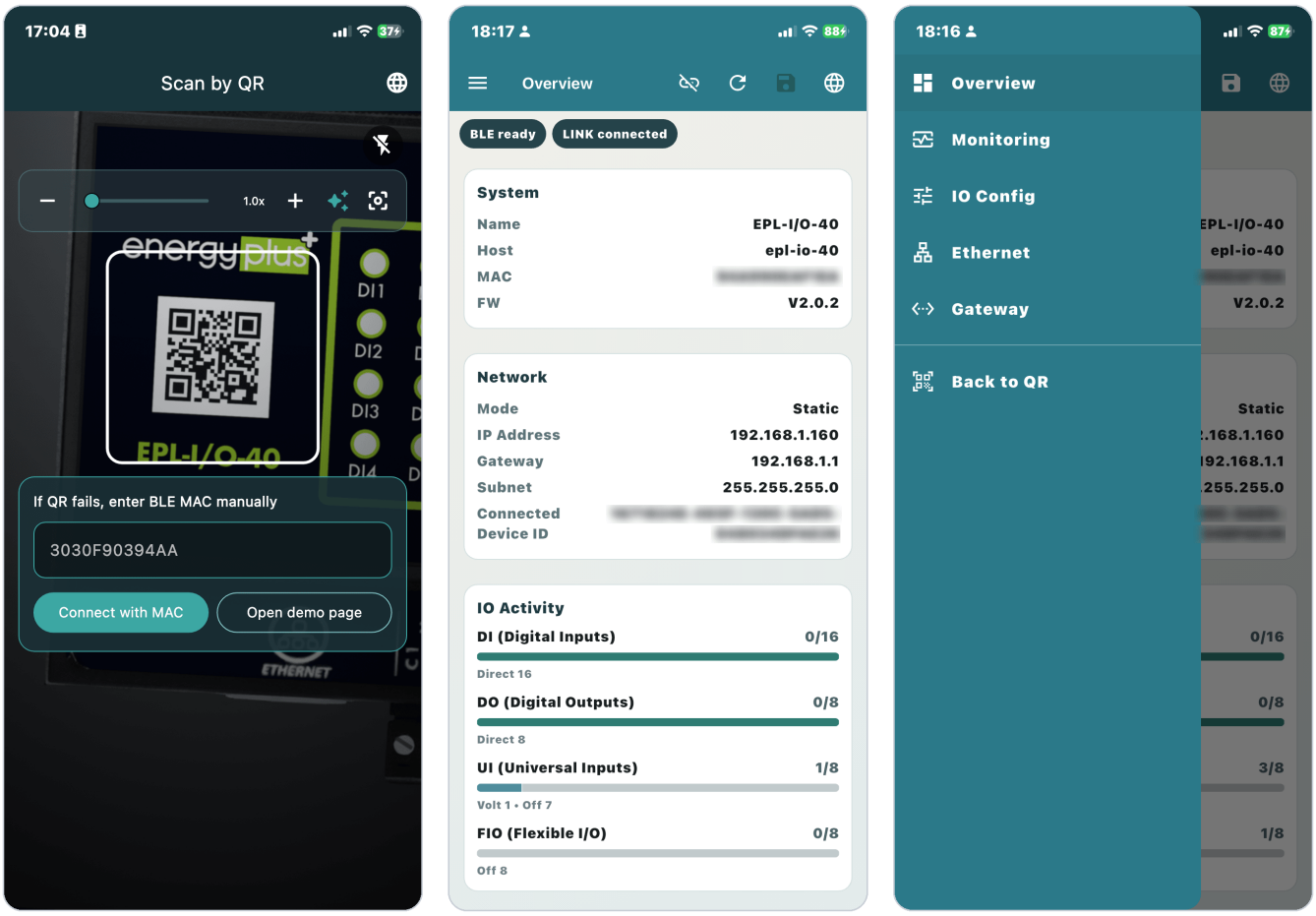


Figure 3. Mobile app: QR connection, overview and menu

Channel Test

Channel	Quick test	Expected result
DI	Contact close/open test	The state changes on the live signals screen.
DO	Output command from the live signals screen	Check the relay state and the connected field equipment.
UI	Sensor or signal simulation	The scaled engineering value is read.
FIO	Command test according to analog or digital mode	The output level or digital state is verified.
Counter	Pulse test on DI1..DI4	The counter value increases; check the reset command. Counters reset on restart.

Protocol Selection

Scenario	Setting to use
Modbus RTU slave	Verify the RS-485 line parameters, slave ID and baud rate. Default: slave ID 1, 9600 8N1.
Modbus TCP	Port 502 is always open while Modbus is selected; verify the register addresses and master access.
Modbus gateway	Optional license, Level 1. Set the gateway port (default 504) or the client target.
BACnet/IP	Verify the Device ID, UDP port (47808) and IP network number.
BACnet MS/TP	Set the MS/TP MAC, baud rate (38400), max master and network number.
BACnet router	Optional license, Level 2. BACnet/IP and MS/TP run at the same time; choose different IP and MS/TP network numbers.

Handover Check

No.	Check	Record
1	IP address and device label recorded	
2	Firmware version recorded	
3	Channel modes compared with the project form	
4	Modbus or BACnet supervisory system test completed	
5	Administrator password changed	
6	Web/BLE access test completed; BLE disabled as the project requires	
7	Channel settings and screenshots added to the handover documents	

Technical Specifications

Specification	Value
Local I/O capacity	16 DI (DI1..DI4 counter inputs), 8 UI, 8 DO relay outputs, 8 FIO (flexible input/output)
UI measurement resolution	22 bit
Communication interfaces	1 × Ethernet RJ45 (10/100 Mbit/s), 1 × RS-485, Bluetooth LE (service and commissioning)
BACnet vendor ID	1600 (registered with ASHRAE)
Supply voltage	24 Vac ±20% or 21..30 Vdc
Nominal power consumption	5 VA
Supply class	Class 2
Protection and temperature class	IP20 enclosure protection, T50 operating class
Operating environment	0..50 °C, 5..95% relative humidity (non-condensing)
Storage environment	-20..70 °C, 5..95% relative humidity (non-condensing)
DO relay output rating	5 A @ 277 Vac or 3 A @ 30 Vdc, resistive load
FIO analog output range	0..10 V or 2..10 V selectable; maximum load current 20 mA per channel
Mounting	DIN rail (EN 60715, 35 mm), cabinet mounting
Enclosure dimensions (width × height × depth)	175 mm × 112 mm × 60 mm