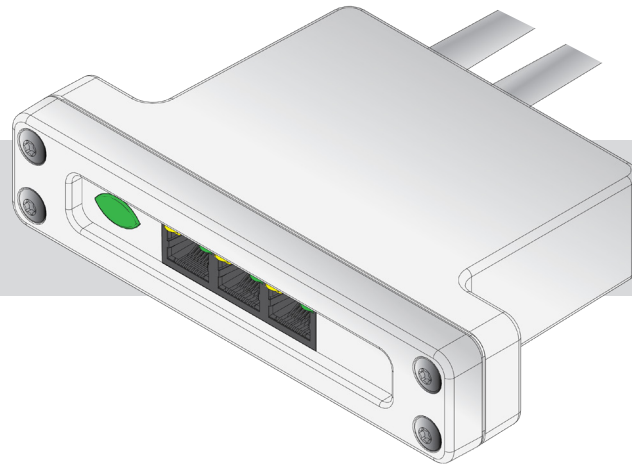




Connect Bridge

Advanced Communication Interface
Generation 5 Batteries



Connect Bridge is an advanced communications interface that translates the standard ModBus used in Polarium batteries into various communication protocols. The Connect Bridge comes with CAN, TCP/IP and can be fitted with customized protocols. Additionally it provides Bluetooth access to the battery system for installation and maintenance staff.

- Safe
- Simple
- Strong
- Smart
- Secure
- Sustainable

Product Description

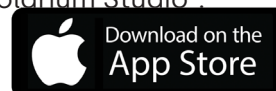
The Polarium Connect Bridge communicates with the SLB48 via CAN and MODbus. It provides MODbus protocol for interface with site controllers or Incell Studio PC. The Polarium Connect Bridge also makes battery information available in the mobile App over Bluetooth. Powered by power cables to the battery terminals, the Polarium Connect Bridge easily installs and adds high levels of modularity to the site allowing for effective monitoring and site integration.

The Polarium Connect Bridge is powered from the battery bus and will be operational as long as the battery is in operation. The unit will be automatically powered up when voltage is above 30V. The supply to the Polarium Connect Bridge is protected against reversed polarity and has safety features built in to protect the product and site.

Studio Mobile Application

Polarium Studio Mobile has a series of functions available to the operator at the mobile phone level. While the capabilities of the PC iteration are more advanced, Polarium Studio Mobile can monitor the alarm system and site information via Bluetooth or cloud data sources.

You can download Studio Mobile from the Apple Store and Google Play Store. Search for "Polarium Studio".



Data subject to change without notice



Bridge Rev 1.0

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Input Power	
Power Input	Red and Black Power Cables w/ M8 lug to connect to battery terminals
Operational Voltage	30-65 V
Auto Start Voltage	30 V
Shutdown Voltage	29 V

Communication		
Ethernet	SNMPV2, can set SNMP traps Modbus TCP/IP, Remote update of firmware	RJ45, 8 Pin
RS485/CAN (Out)	Communicates with customer defined protocols	RJ45, 8 Pin
RS485/CAN (In)	Allows daisy chaining of the RS485 bus, Allows MCU access to the CANbus	RJ45, 8 Pin
RS485/CAN (Out)	Allows daisy chaining of the RS485 bus, Allows MCU access to the CANbus. PC access (with Studio PC) to view battery status.	RJ45, 8 Pin
Bluetooth BLE	View real time battery status	Wireless

Indications	
Power LED Green	Power on, Bluetooth connected
Power LED Off	Power off
Power LED Flashing	Power on, Bluetooth disconnected
RJ45 LED off	No communication
RJ45 LED Yellow	Communication problem
RJ45 LED Green	Communication Ok

Environmental	
Operational Temperature	-20C to 60C
Ingress Protection	IP20
Humidity	20% to 95% RH

Standards	
ETSI 300 386	
IEC 62368	
RoHS	

LED Power Indicator RJ45 Communication Ports

