



The VP-EC-DCIM-BCM-84 is a complete 84 breaker panel branch current monitoring system. Up to 2 VP-EC-BCM-42CT Interfaces can be connected for a total of 84 breakers. Each interface transmits its current readings to the gateway via Modbus RTU RS485 protocol. The VP-EC-BCM-Gateway's built in web server allows the user to program all alarm and operating settings for the breaker variables. Email alerts are programmed for Warning, High, and Zero Load Alarm.

Standard Features of the VP-EC-DCIM Gateway:

- DIN Rail Mount Enclosure for simple installation
- Low Power 12VDC (External 120 VAC to 12 VDC Power Supply supplied with every Gateway)
- LCD Display, Menu Pushbuttons and Status LEDs
- Ethernet TCP/IP Port for connection to the Enviro-Cloud application
- 2 Local RS485 Modbus Ports for connecting VP-EC-BCM-42CT Interfaces
- Remote RS485 Modbus Port for optional connection to building management systems
- Optional RS485 port for remote LCD display (VP-EC-RDU)
- One optional RS485 ports
- Built in web server for local access for programming and data display
- Email Alerts
- Programmable Breaker Alarms
- Standard Gateway can be programmable for up to 84 Breakers (24, 30, 36, 42, 60, 72 and 84 Breakers)

The Enviro Cloud Web App



Specifications

Power:	12 VDC, 1A via external AC (80 to 240VAC) to DC Power Supply (Supplied with Gateway) All attached VP-TX-DCIM Hubs are powered from the same 12 VDC via the Cat5e cable connection that carries the RS485 communication lines	
Ethernet:	10/100 Base T RJ45 Connector (Enviro-Cloud connection) Gateway Web Server provides complete programability (Please refer to the User Manual for information)	
Remote Modbus:	Connection Port for remote access to all environment data RS485, 19200 Baud (N,8,1) RJ45 Jack (2) Power 12VDC supplied over Cat5e Cable MODBUS over TCP/IP via Ethernet Connector	
Breaker Port 1:	VP-EC-BCM-42CT Interface Port Used for breaker panels up to 42 Breakers RS485, 19200 BAUD (8,N,1), RJ45 Connector (Power Over Cat5e Cable)	
Breaker Port 2	VP-EC-BCM-42CT Interface Port Used for breaker panels up to 84 Breakers RS485, 19200 BAUD (8,N,1), RJ45 Connector (Power Over Cat5e Cable)	
Status LEDs:	Power ON LED:	Blue LED Indicator (Always ON)
	Status LEDs (2) :	Normally GREEN for Status OK, Amber for CAUTION Alarm, RED for CRITICAL Alarm
User Interface:	Character LCD:	2 Line x 16 Charater (White on Blue)
	4 Pushbuttons:	MENU, UP, DOWN, ENTER
Audible:	Internal Audible (75 db), Programmable On or Off	
Enclosure:	Dimensions:	6.25" wide x 3.6" high x 2.3" deep
	Material:	ABS, UL94-5VA
	Mounting:	DIN Rail
Environmental:	-20 Deg C to +60 °C Operating Temperature -45 Deg C to +85 °C Storage Temperature	
Options:	Model VP-EC-RDU Remote LCD Display LCD Display: 4 line x 20 Charater 4 Pushbuttons: MENU, UP, DOWN, ENTER Status LEDs (2): Blue Powere LED, 2 Red-Green Status LEDs Dimensions: 6" x 4" x 1.25"	



Block Diagram and Field Connections

