

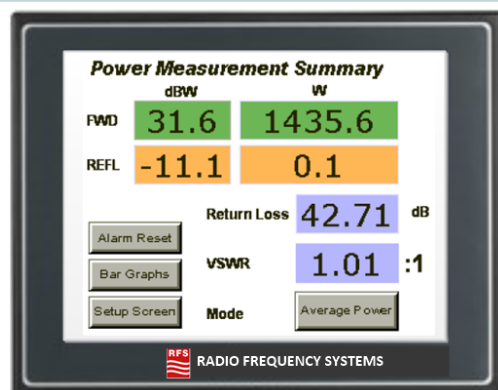


The CMR power meter provides a real-time local display and a simple user interface for RF power monitoring applications. The meter interfaces to one or two RFS model EBD dual power sensors via a Modbus/RS485 serial interface.

When connected with one dual sensor, the display shows forward and reflected power at one monitoring point, as well as VSWR and return loss. When connected with two dual sensors, forward and reflected power, VSWR and return loss of two monitoring points (eg. upper and lower antenna stacks) can be displayed.

The CMR power meter includes a Programmable Logic Controller (PLC), which provides two high/low threshold alarm contacts for return loss and forward power respectively at each monitoring point. A second Modbus/RS485 serial port on the PLC can be used to interface the CMR to an existing Network Management System if required.

A simple user interface provides menus that allow for changes to the display (numeric or bar graph), and for the set-up of directional coupler levels, full-scale deflection and alarm thresholds.



**FEATURES / BENEFITS**

- Local display of forward and reflected power, return loss and VSWR
- Large, bright, high-resolution touchscreen display
- One screen displays one or two monitoring points
- Measurements displayed in numeric and bar-graph formats
- Configurable high/low power alarm thresholds
- Operates from 100 to 240 V AC supply

**Technical features**

**MECHANICAL SPECIFICATIONS**

Display		7 inch TFT LCD
Touch Screen		4 wire resistive, >10,000,000 operations
Screen Resolution		800 x 600
Screen Luminance	cd/m <sup>2</sup>	450
Backlight Lifetime	hr	> 20,000
Sealing		IP65
Mounting		Rack mounting, 5RU, 90mm deep

**ELECTRICAL SPECIFICATIONS**

Serial Data Interface		RS485 Modbus RTU Master
Serial Data Capacity		up to 4 (2 x RFS EBD dual sensors)
Alarm Contacts		Up to eight relay alarm outputs, NO & NC contacts 100VDC, 0.5A
Power Supply		100 to 240 VAC, 50 to 60 Hz
Battery Back-up		CR2032

**ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature	°C(°F)	0 to 50 (32 to 122 )
Storage Temperature	°C (°F)	-20 to 60 (-4 to 140 )
Humidity	%	10 - 90 @ 40 °C, non-condensing

- External Document Links
- [EBD \(Dual RF Power Sensor\)](#)
  - [MSC \(Monitoring System & Controller\)](#)

Notes