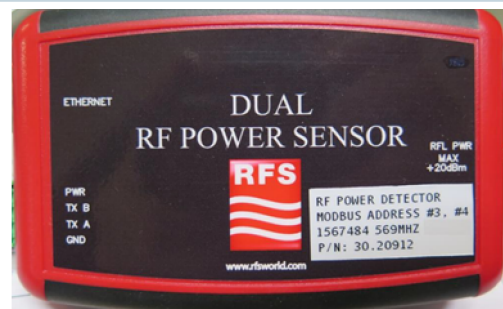




This dual-sensor unit monitors forward and reflected power from a dual directional coupler, and allows the data to be monitored accurately, digitally, remotely and economically. The RF signal is converted to the digital domain within millimetres of the Type N input connector, reducing interference and noise. Unlike a diode detector, the sensor measures an accurate power level over a 50dB dynamic range, with an RF bandwidth of 44–906 MHz. It can handle both analog and digital modulation schemes, with the ability to measure both true RMS and peak power at each port.

The sensor unit provides monitoring and data delivery using proven automation and IP industry standards.



The Ethernet connector provides HTTP, SNMP, and Modbus TCP, while the RS-485 connector supports full backward compatibility to any systems using Modbus RTU protocols. Any existing dual directional coupler can easily be retrofitted with a single RFS EBD RF power sensor, without the need to break into the transmission line, or even to power down. The sensor unit comes pre-calibrated and is internally temperature compensated.

**FEATURES / BENEFITS**

- Covers all TV and radio broadcast frequency bands, worldwide
- Suitable for all forms of analogue and digital modulation, including DVB-T, DVB-T2, ATSC 1.0, ATSC 3.0, ISDB-T, DTMB, DAB, PAL, NTSC, FM Radio, etc.
- Open architecture: Includes SNMP and HTTP interfaces, as well as RS485 and all Modbus protocols
- Adaptable: Use as part of your existing Network Monitoring System, drive a webpage, or feed local displays
- Versatile: Works with both new and existing Network Monitoring Systems
- Pre-calibrated for accurate and reliable measurement
- True RMS power sensor with peak level sensors to detect transient VSWR events

**Technical features**

**ELECTRICAL SPECIFICATIONS**

<b>Frequency Range</b>	MHz	44-906 MHz
<b>Input Power</b>	dBm	Maximum: +20 Recommended: +10 (average), +22 (peak)
<b>Noise Floor</b>	dBm	-39 (port A or B)
<b>Return Loss</b>	dB	> 30 (port A or B)
<b>DC Power Requirement</b>		PoE 48VDC Cisco standard via Ethernet port or +12 or +24 VDC via RS485 screw terminal connection

**MECHANICAL SPECIFICATIONS**

<b>RF Connector</b>		Port A: N Type male - Nominally Forward Power Input Port B: SMA female* - Reflected Power Input * 350mm length SMA male to N male cable supplied
<b>Weight</b>	g (lb)	215 (0.5)
<b>Dimensions-Length, Width, Height</b>	cm (in)	13 x 8 x 5 (5.1" x 3.13" x 2")

**DATA SPECIFICATIONS**

<b>Ethernet</b>		HTTP Protocol web server UDP Protocol SNMP agent Modbus TCP Protocol Slave
<b>RS485</b>		Modbus RTU Protocol Slave Ports A and B have separate modbus slave addresses



**ENVIRONMENTAL SPECIFICATIONS**

<b>Operating Temperature</b>	°C(°F)	0 to 50 (32 to 122)
<b>Humidity</b>		95%, non- condensing

External Document Links

Notes