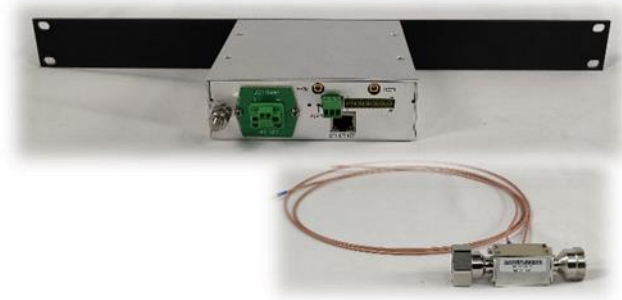


DSCHPM-Series (VHF, UHF, 700/800/900 MHz) SMART Channelized Transmit Power Monitor

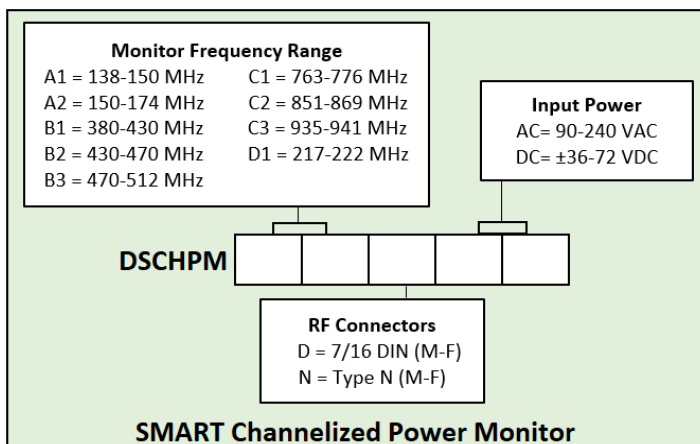


DSCHPM Power Monitor rear view with directional coupler.

Features and Benefits

- ❖ Per-channel and composite measurement of forward and reflected RF power with the SMART Channelized RF Power Monitor.
- ❖ Calculates and displays combiner insertion loss for each channel.
- ❖ All measurements are displayed with 95% accuracy.
- ❖ IP network connection and designed-in web server for web browser Interface.
- ❖ Full remote configuration, monitoring and data logging.
- ❖ User-defined alarm thresholds are indicated by alarm relay closure or by SNMP protocol on the network.
- ❖ Optional temperature sensors for equipment and ambient temperature measurements and alarms.
- ❖ Compact single rack unit mounting with remote RF sensor for flexibility in mounting locations.

Ordering Information



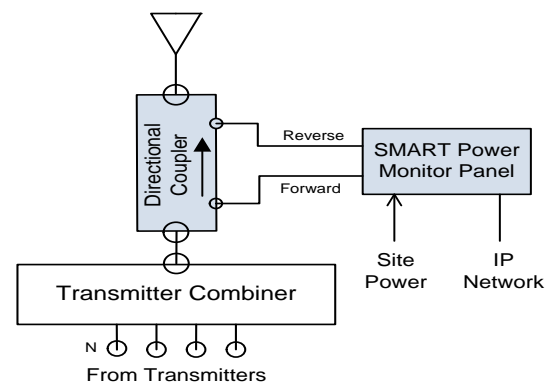
Specifications

Electrical Specifications	
Frequency Range, MHz	See Ordering Information
Minimum TX to TX Separation	50 kHz
Maximum Power Input	600 Watts (directional coupler)
System Type	Digital or analog
Insertion Loss	< 0.1 dB
PIM Rating	-150 dBc
Channelized Power Measurement	Forward /reflected power of individual channels: Watts, dBm, VSWR, Return Loss, Combiner Insertion Loss
Power Requirements	AC Model 90-240 VAC 15W, or DC model ±36-72 VDC 15W
IP Interface	IPV4, with TLS security layer, SNMP v2c/v3 alarm protocol
Alarms	Form C contacts or SNMP v2c/v3
User Interface	Web browser or remote SNMP system manager
Temperature Range	-30 to +60 °C
Mechanical Specifications	
Mounting Dimensions	1 RU, 1.75 X 19 in. (44 X 483 mm) 7.5 in. (191 mm) deep
Construction / Finish	Aluminum / protective finishes
RF Connectors	
Input	7/16 DIN(male) or N(male)
Output	7/16 DIN(female) or N(female)
Directional Coupler	MCX type (cables supplied)
Power Connector	AC model: IEC 320-C13 inlet & cord DC model: 2 port terminal block
Ethernet Connector	RJ-45
Alarm Closures Connector	3 port pluggable terminal block
Temp. Sensor Connector	24-pin header male pins
Net Weight	4.6 lbs. (2.1 kg)
Shipping weight	6.1 lbs. (2.8 kg)

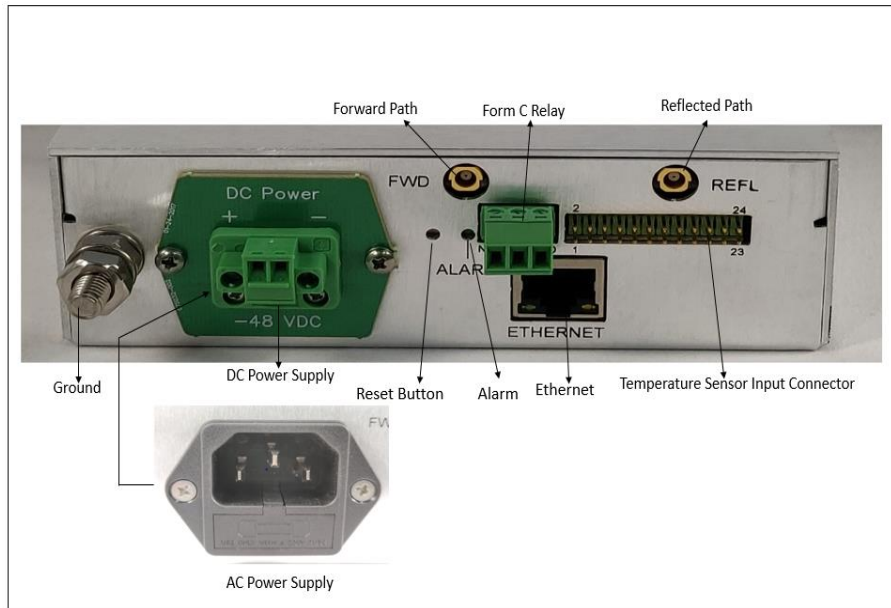
Notes: 1. Factory calibrated using a P25 LSM signal source, may be calibrated in the field for improved accuracy.

2. Contact dbSpectra at tech@dbspectra.com for additional information on optional temperature sensor feature.

Typical Application



DSCHPM-Series (VHF, UHF, 700/800/900 MHz) SMART Channelized Transmit Power Monitor



DSCHPM Power Monitor Rear Panel View with AC/DC Supply

SYSTEM STATUS | Page Sections: [Channelized Power](#) | [Temperature](#) | [Composite Power](#) | [Board Temperature](#)

Channelized power

Channel	Channel Name	Frequency (MHz) ¹	Real-time ²				Last valid signal ³			
			Forward Pwr (dBm/Watts)	Reflected Pwr (dBm/Watts)	ANT : Return Loss (dB) / VSWR (:1)	Insertion Loss (dB)	Forward Pwr (dBm/Watts) ⁴	ANT : Return Loss (dB) / VSWR (:1) ⁴	Insertion Loss (dB) ⁴	Time elapsed since last TX key ⁵
1	channel_1	851.000	45.2/33.2	18.5/0.1	26.7/1.1	4.4	45.2/33.2	26.7/1.1	4.4	00:00:00
2	channel_2	851.100	-/0.0	-/0.0	-/-	-	45.7/37.2	26.8/1.1	3.8	00:01:18
3	channel_3	851.200	-/0.0	-/0.0	-/-	-	44.8/29.9	26.6/1.1	4.8	00:00:34
4	channel_4	851.300	-/0.0	-/0.0	-/-	-	45.0/31.6	26.7/1.1	4.6	00:00:23
5	channel_5	851.400	-/0.0	-/0.0	-/-	-	45.2/33.4	26.9/1.1	4.4	00:00:42
6	channel_6	851.500	45.4/34.5	18.7/0.1	26.7/1.1	4.2	45.4/34.5	26.7/1.1	4.2	00:00:00

Temperature sensor status

Sensor ID	1	2	3	4	5	6	7	8	9	10	11	12
Temperature (°C) ¹	27.4	28.2	28.3	27.7	27.6	28.1	26.7	28.8	-	-	-	-
Sensor Label	sensor_1	sensor_2	sensor_3	sensor_4	sensor_5	sensor_6	sensor_7	sensor_8	sensor_9	sensor_10	sensor_11	sensor_12

Composite Power

Forward Pwr (dBm/Watts) ⁴	Reflected Pwr (dBm/Watts)	ANT : Return Loss (dB)/VSWR (:1) ⁴
48.3/67.7	21.6/0.1	26.7/1.1

Board Temperature

Board Temperature (°C) ¹
41.2

DSCHPM Channelized Power Monitor Status Display on Browser