

Stand-alone frequency selective power monitor

- Frequency selective
- Supports up to 12 carriers of 50W each
- Intermodulation hardened
- Compact form factor
- Power monitor is Ethernet / SNMP enabled / SYSLOG
- Measures Forward & Reflected power, antenna VSWR, temperature
- Alarms are user configured via Ethernet or SNMP



Combilent

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TX RX Systems

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Specification, System

VHF model	136-154 MHz
VHF model	150-174 MHz
VHF model	150-174 MHz
220 model	215-225 MHz
220 model	215-225 MHz
UHF model	380-400 MHz
UHF model	380-400 MHz
UHF model	403-440 MHz
UHF model	403-440 MHz
UHF model	440-470 MHz
UHF model	440-470 MHz
UHF model	440-470 MHz
UHF model	470-490 MHz
7/800 MHz model	763-775 MHz / 851-869 MHz
7/800 MHz model	763-775 MHz / 851-869 MHz
7/800 MHz model	763-775 MHz / 851-869 MHz
900 MHz	935-941 MHz
900 MHz	935-941 MHz

Specification	RF part
Input power	12*50 W (25 kW PIP)
Insertion loss	<0.15 dB
Input return loss	>20 dB
Output return loss	>20 dB
IM 3 rd , 5 th order	<-150 dBc at 2*43 dBm
Operating temp.	-30°C to 60°C
Connectors	7-16 or 4.3-10 female
Dimensions	19", 2U, 10" deep
Weight	10 lbs
Drawing	OD19781

Product options

CP01137	AC	7-16
CP01116	AC	7-16
CP01126	DC	7-16
CP01156	AC	7-16
CP01157	DC	7-16
CP01123	AC	7-16
CP01134	DC	7-16
CP01124	AC	7-16
CP01135	DC	7-16
CP01109	AC	7-16
CP01127	DC	7-16
CP01139	AC	4.3-10
CP01167	DC	7-16
CP01110	AC	7-16
CP01128	DC	7-16
CP01140	AC	4.3-10
CP01120	AC	7-16
CP01129	DC	7-16

Specification

Power supply
Interfaces
Alarm output
Functions and alarms

Features

Power supply

Connector

Power Monitor (DPM)


AC mains or -48VDC, 150 mA
 Integrated web-server
 SNMP v1/2C with MIB file
 Dry contact
 Forward power / frequency
 Reflected power / frequency
 Antenna VSWR / frequency
 Insertion loss / frequency
 Temperature
 SNTP
 SYSLOG
 Firmware update
 Factory test data

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Dashboard


Home
Combiner status
Network config
SNMP config
Syslog config
System event log
Firmware
Test info

Combiner status - Online

Cav.	Enb. <input type="checkbox"/>	Ch.	Description	Freq.	Fwd. Pwr dBm/W	Rev. Pwr dBm/W	Cal. Pwr dBm/W	RL dB
1	<input checked="" type="checkbox"/>			855.0000	- / -	- / -	- / -	-
2	<input checked="" type="checkbox"/>			769.0000	46.40 / 43.60	36.30 / 4.20	46.40 / 43.60	10.10
3	<input type="checkbox"/>			0.0000	- / -	- / -	- / -	-
4	<input type="checkbox"/>			0.0000	- / -	- / -	- / -	-
5	<input type="checkbox"/>			0.0000	- / -	- / -	- / -	-
6	<input type="checkbox"/>			0.0000	- / -	- / -	- / -	-
7	<input type="checkbox"/>			0.0000	- / -	- / -	- / -	-
8	<input type="checkbox"/>			0.0000	- / -	- / -	- / -	-
9	<input type="checkbox"/>			0.0000	- / -	- / -	- / -	-
10	<input type="checkbox"/>			0.0000	- / -	- / -	- / -	-
11	<input type="checkbox"/>			0.0000	- / -	- / -	- / -	-
12	<input type="checkbox"/>			0.0000	- / -	- / -	- / -	-

Combiner output power (antenna)	Top of rack output power	Board temp.
46.39 / 43.60	46.39 / 43.60	40.5

Temp. sensor 1	Temp. sensor 2	Temp. sensor 3	Temp. sensor 4	Temp. sensor 5
-	-	-	-	-

Parameter configuration:

Cavity	Enable	Channel	Description	Frequency	Calibrate	Adjust
1	<input checked="" type="checkbox"/>			855.0000	Calibrate	Adjust
2	<input checked="" type="checkbox"/>			769.0000	Calibrate	Adjust
3	<input type="checkbox"/>			0.0000	Calibrate	Adjust
4	<input type="checkbox"/>			0.0000	Calibrate	Adjust
5	<input type="checkbox"/>			0.0000	Calibrate	Adjust
6	<input type="checkbox"/>			0.0000	Calibrate	Adjust
7	<input type="checkbox"/>			0.0000	Calibrate	Adjust
8	<input type="checkbox"/>			0.0000	Calibrate	Adjust
9	<input type="checkbox"/>			0.0000	Calibrate	Adjust
10	<input type="checkbox"/>			0.0000	Calibrate	Adjust
11	<input type="checkbox"/>			0.0000	Calibrate	Adjust
12	<input type="checkbox"/>			0.0000	Calibrate	Adjust

Setting	Value

Alarm relay config

Description

Combiner status page.

Combiner status section:

Power readings displayed as dBm / Watt
Combiner output power = calculated value, calculated from all channels forward power

Returnloss = antenna returnloss

Top of rack output power = combiner output power - additional loss

Temperature readings are in degrees celsius.

Field background colors:
Forward power.
Green = CalPwr-FwdPwr < 2dB
Yellow = CalPwr-FwdPwr < 3dB
Red = CalPwr-FwdPwr > 3dB

Returnloss.
White = no alarm
Yellow = Warning active
Red = Alarm active

Temp. sensor temperature, Board Temperature.
White = no alarm
Gold = Warning active
Red = Alarm active

Combiner parameter section:
Return loss warning alarm limits.

Output power additional loss, input post combiner loss here.

Board temperature warning level.
Board temperature alarm level.

Temp. sensor warning level.
Temp. sensor alarm level.

Temperature limits are in degrees celsius.

Alarm relay configuration.

Status page