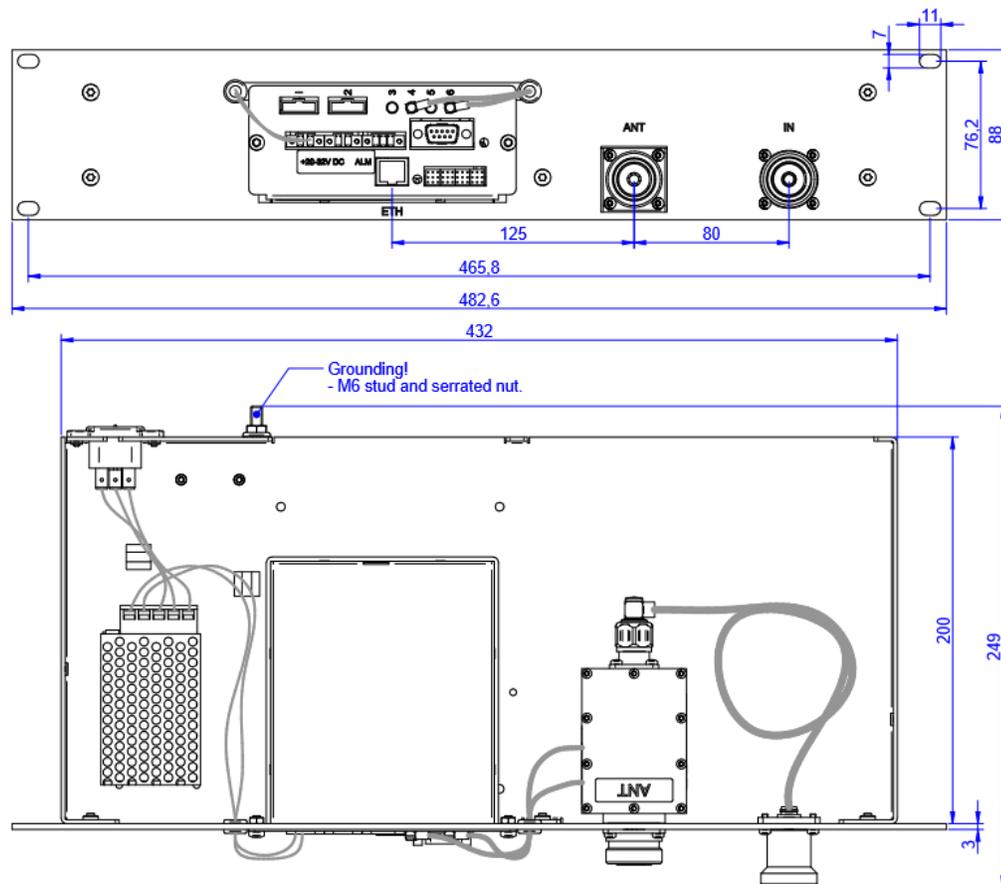


Stand-alone frequency selective power monitor

Available in VHF, UHF, 7/800 MHz, 900 MHz bands

- Frequency selective
- Supports up to 10 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 USA

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Leading innovation and reliability for Public Safety

DS19788
October 2018

Specification, System

VHF model 150-170 MHz
UHF model 450-470 MHz
7/800 MHz model 763-775 MHz / 851-869 MHz
900 MHz 935-941 MHz

Specification **RF part**
Input power 10*50 W
Insertion loss <0.15 dB
Input return loss >20 dB
Output return loss >20 dB
IM 3rd, 5th order <-150 dBc at 2*43 dBm
Operating temp. -30°C to 60°C
Connectors 7-16 female

Dimensions 19", 2U, 10" deep
Weight 10 lbs

Product options

CP01117 VHF
 CP01109 UHF
 CP01110 7/800 MHz
 CP01120 900 MHz

Specification

Power supply
Interfaces
Alarm output
Functions and alarms

Features

Power Monitor (DPM)

110V/230VAC mains
 Integrated web-server
 SNMP v2C (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

Cavity	Enable	Frequency	Input Pwr dBm	Calibrated Pwr dBm/W	Insertion loss dB	Output Pwr dBm/W	Returnloss at ANT dB
1	<input checked="" type="checkbox"/>	460.0250	49.0	47.3 / 53.7	0.0	0.0 / 0.0	0.0
2	<input checked="" type="checkbox"/>	461.1500	48.0	47.2 / 52.4	0.0	0.0 / 0.0	0.0
3	<input checked="" type="checkbox"/>	462.2750	48.0	47.3 / 53.7	0.0	0.0 / 0.0	0.0
4	<input checked="" type="checkbox"/>	463.2000	48.0	47.3 / 53.7	0.0	0.0 / 0.0	0.0
5	<input checked="" type="checkbox"/>	464.0000	48.0	47.3 / 53.7	0.0	0.0 / 0.0	0.0
6	<input type="checkbox"/>	0.0000	0.0	0.0 / 0.0	0.0	0.0 / 0.0	0.0
7	<input type="checkbox"/>	0.0000	0.0	0.0 / 0.0	0.0	0.0 / 0.0	0.0
8	<input type="checkbox"/>	0.0000	0.0	0.0 / 0.0	0.0	0.0 / 0.0	0.0
9	<input type="checkbox"/>	0.0000	0.0	0.0 / 0.0	0.0	0.0 / 0.0	0.0
10	<input type="checkbox"/>	0.0000	0.0	0.0 / 0.0	0.0	0.0 / 0.0	0.0

Combiner output power (antenna)	Top of rack output power	Board temp.
0.0 / 0.0	0.0 / 0.0	14.9

Temp. sensor 1	Temp. sensor 2	Temp. sensor 3	Temp. sensor 4	Temp. sensor 5
Sensor error				

Parameter configuration:

Cavity	Enable	Frequency	Input power dBm	Calibrate	Adjust
1	<input checked="" type="checkbox"/>	460.0250	49.0	Calibrate	Adjust
2	<input checked="" type="checkbox"/>	461.1500	48.0	Calibrate	Adjust
3	<input checked="" type="checkbox"/>	462.2750	48.0	Calibrate	Adjust
4	<input checked="" type="checkbox"/>	463.2000	48.0	Calibrate	Adjust
5	<input checked="" type="checkbox"/>	464.0000	48.0	Calibrate	Adjust
6	<input type="checkbox"/>	0.0000	0.0	Calibrate	Adjust
7	<input type="checkbox"/>	0.0000	0.0	Calibrate	Adjust
8	<input type="checkbox"/>	0.0000	0.0	Calibrate	Adjust
9	<input type="checkbox"/>	0.0000	0.0	Calibrate	Adjust
10	<input type="checkbox"/>	0.0000	0.0	Calibrate	Adjust
Change					

Setting	Value
Returnloss alarm threshold (dB)	12.0
Temp. sensor 1 enabled	<input checked="" type="checkbox"/>
Temp. sensor 2 enabled	<input checked="" type="checkbox"/>
Temp. sensor 3 enabled	<input checked="" type="checkbox"/>
Temp. sensor 4 enabled	<input checked="" type="checkbox"/>
Temp. sensor 5 enabled	<input checked="" type="checkbox"/>
Output power additional loss (0 - 10dB)	0.5
Board temperature warning level (0 - 100C)	60
Board temperature alarm level (0 - 100C)	80
Load temperature warning level (0 - 100C)	60
Load temperature alarm level (0 - 100C)	80
Change	

Alarm relay config
<input checked="" type="checkbox"/> Cav1Alarm
<input checked="" type="checkbox"/> Cav2Alarm
<input checked="" type="checkbox"/> Cav3Alarm
<input checked="" type="checkbox"/> Cav4Alarm
<input checked="" type="checkbox"/> Cav5Alarm
<input checked="" type="checkbox"/> Cav6Alarm
<input checked="" type="checkbox"/> Cav7Alarm
<input checked="" type="checkbox"/> Cav8Alarm
<input checked="" type="checkbox"/> Cav9Alarm
<input checked="" type="checkbox"/> Cav10Alarm
<input checked="" type="checkbox"/> BoardTemp
<input checked="" type="checkbox"/> TempSensor1
<input checked="" type="checkbox"/> TempSensor2
<input checked="" type="checkbox"/> TempSensor3
<input checked="" type="checkbox"/> TempSensor4

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] < 0.5dB
 Yellow = [CalPwr-FwdPwr] < 1dB
 Red = [CalPwr-FwdPwr] > 1dB

Returnloss.
 White = no alarm
 Red = Alarm active

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

Combiner parameter section:
 Return loss alarm limit.

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.

Device information.
 Serial number information.

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