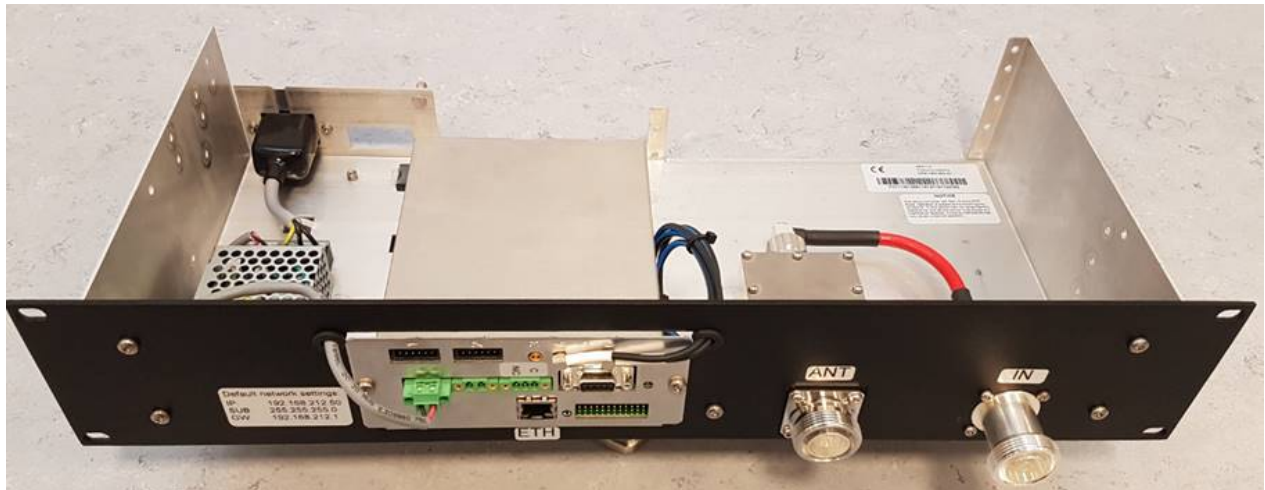


## Stand-alone frequency selective power monitor

Available in VHF, UHF, 7/800 MHz, and 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  
April 12, 2019

**Specification, System**

VHF model	150-174 MHz
VHF model	150-174 MHz
UHF model	380-410 MHz
UHF model	410-440 MHz
UHF model	440-470 MHz
UHF model	440-470 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

<b>Specification</b>	<b>RF part</b>
Input power	10*50 W (25 kW PIP)
Insertion loss	<0.15 dB
Input return loss	>20 dB
Output return loss	>20 dB
IM 3 <sup>rd</sup> , 5 <sup>th</sup> 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
Drawing	OD19781

**Product options**

CP01117
CP01126
CP01123
CP01124
CP01109
CP01127
CP01110
CP01128
CP01120
CP01129

<b>Specification</b>
<b>Power supply</b>
<b>Interfaces</b>
<b>Alarm output</b>
<b>Functions and alarms</b>

**Features**

**Power supply**

AC
DC
AC
AC
AC
DC
AC
DC
AC
DC

**Power Monitor (DPM)**

AC mains or -48VDC
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	Sensor error	Sensor error	Sensor error	Sensor error

**Parameter configuration:**

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

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
<a href="#">Change</a>	

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"/> TempoSensor4

**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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