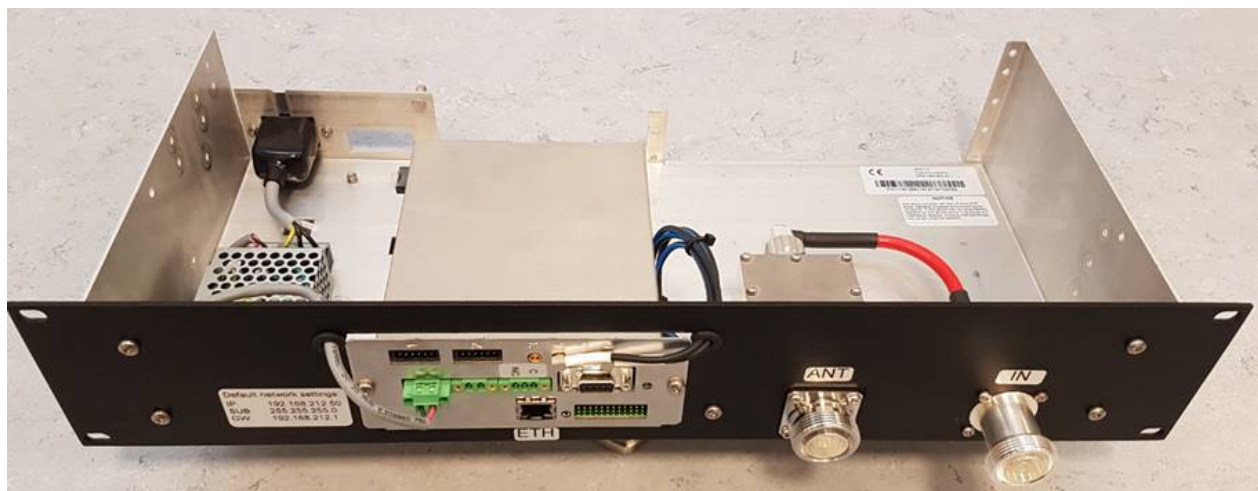


Stand-alone frequency selective power monitor

- Frequency selective
- Supports up to 12 carriers of 50W each
- Intermodulation hardened
- Compact form factor
- Power monitor is Ethernet / SNMP enabled
- 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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DS19788. August 2, 2023

Band	Freq. range	Part number	Power supply	Connector
VHF model	136-154 MHz	CP01137	AC	7-16
VHF model	150-174 MHz	CP01116	AC	7-16
VHF model	150-174 MHz	CP01126	DC	7-16
220 model	215-225 MHz	CP01156	AC	7-16
220 model	215-225 MHz	CP01157	DC	7-16
UHF model	380-400 MHz	CP01123	AC	7-16
UHF model	380-400 MHz	CP01134	DC	7-16
UHF model	403-440 MHz	CP01124	AC	7-16
UHF model	403-440 MHz	CP01135	DC	7-16
UHF model	440-470 MHz	CP01109	AC	7-16
UHF model	440-470 MHz	CP01127	DC	7-16
UHF model	440-470 MHz	CP01139	AC	4.3-10
UHF model	450-486 MHz	CP01180	AC	4.3-10
UHF model	470-490 MHz	CP01167	DC	7-16
UHF model	470-490 MHz	CP01176	AC	7-16
7/800 MHz model	763-775 MHz / 851-869 MHz	CP01110	AC	7-16
7/800 MHz model	763-775 MHz / 851-869 MHz	CP01128	DC	7-16
7/800 MHz model	763-775 MHz / 851-869 MHz	CP01140	AC	4.3-10
900 MHz	935-941 MHz	CP01120	AC	7-16
900 MHz	935-941 MHz	CP01129	DC	7-16

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 female or 4.3-10 female
Dimensions	19", 2U, 10" deep
Weight	10 lbs
Drawing	OD19781
User Guide	UG21148
MIB	SU17812

Specification	Power Monitor (DPM)
Power supply	AC mains or -48VDC, 150 mA
Interfaces	Integrated web-server SNMP v1/2C with MIB file
Alarm output	Dry contact
Functions and alarms	Forward power / frequency Reflected power / frequency Antenna VSWR / frequency Insertion loss / frequency Temperature
Features	SNTP 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.	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
<input type="button" value="Submit"/>						

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