Power Meter - PMB

DAC SYSTEM SA
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The Power Meter is the controller of the system. Provides the UI, keeps the database and history. Analyzes the data and throws the alarms.

- Permanent monitoring the behavior of RF-Systems
- Proof SLA compliance in colocation situation
- Real time RL/VSWR and True RMS power measurement
- Dashboard with Degradations and ARCs localization
- Trend curves for power and return loss with set threshold barriers for alarms.
- SNMP interface (alarms, values) available.
- I/F to Apollo

Connectivity	PC/LapTop Interface (Local), Ethernet (LAN) –
Power Supply	1 x AC 90 ...264V, 47....63Hz – IEC
Analog interfaces	Analog ports (FWD + RFL) – SMA F-Connector- 6 ports
Dimension + Display	19" sub-rack – 1HU / H43.7mm x W483 x D220mm + front display 2 lines
DAC interfaces	RFHAWKEYE

Processing Unit- PU

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The Processing Unit generates the Radar signal and processes the echoes of the RFHawkeye technology ;

- Two versions: UHF and FM/VHF
- RF Power injected into the transmission line: up to 3 dBm (2 mW)
- LAN I/F to Wattmeter /PMB
- Power output: configurable up 34 dBm

Detection of return loss / VSWR variation	> 1 dB
Sparc Detection	Detects and localizes 100% of arcs or arc bursts longer than 100µs
Smallest detectable reflection	< - 45dB
Accuracy of location of return loss/VSWR variation or Sparc occurrence	+/- 8 inches / 20 cm
PU Power consumption	30 Watt
PU Dimension	19” subrack – 1HU / H43.7mm x W483 x D220mm
PU Weight	2700 g / 5.95 lbs
PU Safety	EN60950-1
PU RF Connector	2 x N - female / 50 ohm
PU Power supply	110/220 VAC (Redundant)

Specifications are subject to change without prior notice

Coupling Unit - CU

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UHF, FM, DAB and VHF

(Single and Multichannel Versions)

The Coupling Unit injects the Radar signal into the T/L. Extracts the echoes and deliver to the Processing Unit

- Transparent to Broadcast service signal
- Multiple models for all the rigid line sizes from 7/8” to 8”
- Rejection of TV channels (UHF version)
- Rejection of FM and VHF channels (FM version)
- Tight coupling in radar frequencies

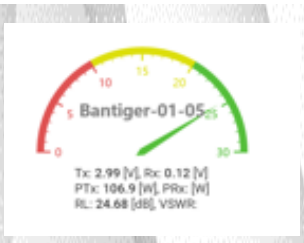
CU RF Connector	2 X N - female / 50 ohm
CU Return Loss / VSWR	> 35 dB / < 1.036
CU Material	Rigid Line: copper; flange: Brass
CU Dimension	Length:15.75 inches / 400 mm
CU Weight	7,7 -15,4 lbs / 3,5 – 7 kg (depending on line sections)

SOFTWARE

The RFH software provides Real-Time In-Service TDR plot and ARCs localizations .Dashboard with real time return Loss and power value measurement.

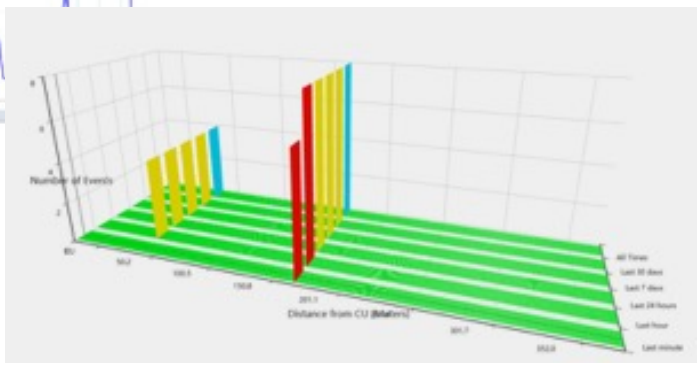
- Continuous comparison of Current Measurement Vs Warning and Alarm threshold lines
- Alarms thresholds configurable along the line
- SNMP interface (alarms, values) v2.0 and v3.0
- TCP/IP – IPv4 – DHCP or Static

VSWR plot



RF Power Meter

ARCs plot



General

Detection of the return loss/ VSWR variation	> 1 dB
Smallest detectable reflection	- 45 dB
Accuracy of location of return loss/VSWR_ARCs	60 cm