

COMPACT RFHAWKEYE

The **RFHAWKEYE** is In-Service Time Domain Reflectometer (TDR) system that provides accurate localization, in the Antenna system, of the variation of VSWR/RL during RF transmission signals.



In addition, the system provides the real time RF Power Meter, keeps the database and history analyzing the data and sending alarms and warnings.

In a compact solution case, the essential to monitor your RF antenna system.

The right solution for Medium and Low RF power Transmitter antenna system with cable foam and air dielectric feeders

COMPACT

RFHAWKEYE



MAIN FEATURES

- Permanent monitoring of the RF-Systems behavior
- Dashboard with Degradations localization Real Time, Alarms
- Distance to Fault on-line, with and without TX power ON
- Dashboard with real time return loss and power value measurement
- True RMS power meter measurements FWD and REFL
- Trend curves for power and return loss with set threshold barriers for warnings and alarms.
- SNMP interface (alarms, values) available.
- Two versions: UHF, FM and DAB
- No RF interference to the TX channels
- Able to work without necessity of transmitter power



The **Compact RFHAWKEYE box** contain the CPU and the Radar generator board.
 The **Coupling Unit** injects the Radar signal into the T/L- main feeder to detect the anomalies of the system and able to read the RL/VSWR,FWD and REFL values

General COMPACT

Dimension box	19" sub-rack – 1HU / H43.7 mm x W483 x D220 mm
RF interfaces box	SMA F-Connector- 2 ports- (FWD + RFL) N Connectors 2x
IP interfaces	1 x LAN connectors RJ45
Frequencies	FM + UHF + DAB
Operating Temp	-5 to 45 °C (ETSI EN 300 019-2-3)
Safety	EN60950-1 – EN61326-1
Power Supply	1 x AC 90 ...264V, 47...63Hz – IEC

General COUPLING UNIT

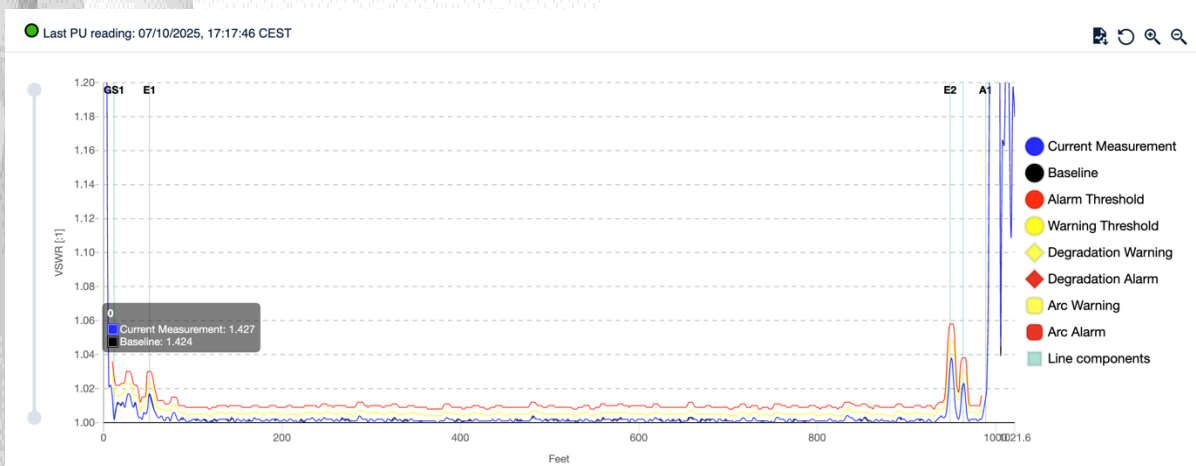
Typical dimension CU	400 mm
RF interfaces probe	4 x N female Connectors / 50 ohm
Return Loss/VSWR CU	> 35 dB / < 1.036:1
Insertion Loss CU	≤ 0.15 dB
Directivity CU	≥ 35 dB up to 1 GHz
Sizes	EIA 3-1/8 to 7/8



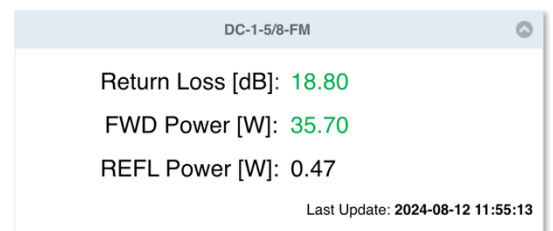
SOFTWARE

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

- Continuous comparison of Current Measurement Vs Warning and Alarm threshold lines
- Alarms thresholds configurable (on GUI) along the line
- SNMP interface (alarms, values) v2.0 and v3.0



VSWR plot



RF Power Meter

General

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



Note: The specifications in this document are subject to change without notice. DAC System reserves the right to make changes to products or discontinue them at any time.