


COMPACT



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



+ MAIN FEATURES

- Permanent monitoring of the RF-Systems behavior
- Dashboard with Degradations localization Real Time
- Distance to Fault on-line, with TX power ON
- Dashboard with real time return loss and power value measurement
- True RMS power meter measurements
- Trend curves for power and return loss with set threshold barriers for warnings and alarms.
- SNMP interface (alarms, values) available.
- Two versions: UHF and FM
- No RF interference to the TX channels



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.

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
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

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, 1-5/8 and 7/8

Specifications are subject to change without prior notice

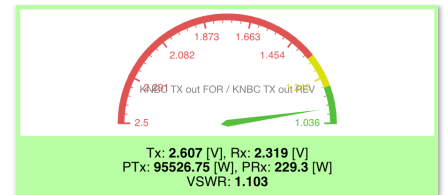
SOFTWARE

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 along the line
- SNMP interface (alarms, values) v2.0 and v3.0
- TCP/IP – IPv4 – DHCP or Static



VSWR plot



RF Power Meter

General

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