



PRODUCT

The new exciters, Falcon series, are realized with technology ICEFET, that allows drastic decrease of the temperature to a sensitive reduction of the consumptions and this family is a system of total quality thanks to a diagnostic remote, fast and capillary assistance, low consumptions, duration in the time and it is easy to use.

Ultra-compact and ultra-light (only 13 kg). Aluminium chassis, in 2 rack unit only.

Pressure encoder provides great accessibility for user/device interaction, resulting in extreme of use. Configuration software offers a simple, intuitive interface

The ALC (Automatic Level Control) and Foldback protection ensures enhanced business continuity under any operating conditions.

COMPONENTS

All components of the series shared the same characteristics to the RF module, power supply, logics of control, systems of protection, derating, facility of installation and simplicity of setup.

ADVANTAGES

The advantages of the module systems are as follows:

- All technological improvement on the basic product is directly transferred on the apparatuses of the series.
- Automatic diffusion of the knowledge and maintenance
- Interchangeability and independence of the each module base
- Common parts of exchange on the whole series

POWER

The system of the power supply switching by PFC, high effi ciency, logic proportional protection without interruption of the operation, predisposition for telemetry.

The new line of FM transmitters launched by Quark, "Simply Fet", are characterized of an important efficiency refinement; in fact, with regard to RFpart, it passes 83% and the entire performance of the transmitter is 76%.

These products also involves a low environmental impact and it is aimed at high energy saving.

OPTIONALS

ASE/EBU: digital audio input (XLR) TCP/IP: remote control Addictional air filter on the front Addictional SCA imput



TECHNICAL FEATURES FALCON 1000 FALCON 1600

87.5 - 108 MHz Frequency range Low-pass filter Band 87.5 MHz - 108 MHz All the mechanical parts are in aluminium Corrosion

Measure point Monitor RF

More than 50 visualized parameters on display LCD Visualized parameters Setting parameters operation From the frontal panel through encoders and LCD CPU yes

Redundant fans yes **Transistors ICEFET**

@1000 W MRF6VP5600 @1600 W MRF6VP61K25 Type of transistors

GENERALS

Rated output power 1.000 W 1.600 W

Modulation type Direct carrier frequency Operational Mode Mono, Stereo, Multiplex

Environmental working conditions -10 °C to +50 °C / 95% relative Humidity non condensing From software, with 10 kHz / 100 kHz steps Frequency programmability

Frequency stability WT from -10 °C to 50 °C +/- 1 ppm

Modulation capability 150 kHz Stereo, 180 kHz Mono / MPX Pre-emphasis mode 0 μS, 50 μS (CCIR), 75 μS (FCC)

POWER REQUIREMENTS

AC Supply Voltage 230 +/- 15% VAC

2050 W **Active Power Consumption** 1330 W **AC Power Input**

Overall Efficiency Typical 70% Connector Cable

MECHANICAL DIMENSIONS

Phisical Dimensions LxHxM 440 mm x 85 mm x 500 mm

Weight About 13 Kg

AUDIO INPUTS

Left / Mono & Right 10 kOhm or 600 Ohm (XLR F) Level: -3.5 to 13 dBu (optional -13 to +13 dBu) 10 kOhm or 50 Ohm (BNC) Level: -3.5 to 13 dBu (optional -13 to +13 dBu) @75 kHz FM MPX

SCA / RDS 10 k0hm (2x BNC) Level: -8 to +13 dBu @ 75 kHz FM

AES / EBU (OPTIONAL) 110 0hm (XLR F)

OUTPUTS

RF output 50 Ohm (7 / 16" EIA flange type) 50 Ohm (BNC) approx. -60 dBc **RF Monitor** >5 kOhm (BNC) approx. 1Vpp Pilot output

FUSES

Internal fuses on main line n° 2 fuse F 16 T - 5x20 mm

COOLING SYSTEM

15 °C Different temperature of the air in entrance / gone out Type of cooling Forced air

ENVIRONMENTAL CONDITIONS

- 20° + 45 °C Temperature (working) - 20° + 70 °C Temperature (not working) Umidity (working) 95% a 40 °C Umidity (not working) 90% a 65 °C Altitude (working) > 3.000 meters

