





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 16 kg). Aluminium chassis, in 3 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 2000 FALCON 2500

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

yes

Visualized parameters Setting parameters operation

From the frontal panel through encoders and LCD CPU

Redundant power supply Optional yes Redundant fans yes

ICEFET Transistors Type of transistors @2000W MRF6VP5600 @2500W MRF6VP61K25

GENERALS

2.000 W 2.500 W Rated output power

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

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

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

Modulation capability 150 kHz Stereo, 180 kHz Mono / MPX Pre-emphasis mode $0~\mu\text{S}, 50~\mu\text{S}$ (CCIR), $75~\mu\text{S}$ (FCC)

POWER REQUIREMENTS

AC Supply Voltage 230 +/- 15% VAC

2950 W 3250 W **Active Power Consumption**

AC Power Input Overall Efficiency Typical 70% Connector Cable

MECHANICAL DIMENSIONS

LxHxM 440 mm x 130 mm x 520 mm Phisical Dimensions

Weight About 16 Kg

AUDIO INPUTS

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

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

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

OUTPUTS

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

MAIN PROTECTION

Bipolar termal switch with internal light

COOLING SYSTEM

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

ENVIRONMENTAL CONDITIONS

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

