Falcon 3000 3500



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

PRODUCT

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



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TECHNICAL FEATURES		FALCON 3000	FALCON 3500
Frequency range		87.5 - 108 MHz	
Low-pass filter		Band 87.5 MHz - 108 MHz	
Corrosion		All the mechanical parts are in aluminium	
Measure point		Monitor RF	
Visualized parameters		More than 50 visualized parameters on display LCD	
Setting parameters operation		From the frontal panel thro	ugh encoders and LCD
CPU		yes	
Redundant power supply		Optional	yes
Redundant fans		yes	
Trans is tors		ICEFET	
Type of trans is tors	MRF6VP61K25		1K25
GENERALS			
Poted output newsr		3.000 W	3.500 W
Rated output power Modulation type			
Operational Mode		Direct carrier frequency	
Environmental working conditions		Mono, Stereo, Multiplex	
0		-10 °C to +50 °C / 95% relative Humidity non condensing From software with 10 kHz / 100 kHz steps	
Frequency programmability	WT from -10 °C to 50 °C	From software, with 10 kHz / 100 kHz steps	
Frequency stability Modulation capability	W1 Irolli -10 C to 50 C	+/- 1 ppm 150 kHz Stereo, 180 kHz Mono / MPX	
Pre-emphasis mode		0 μS, 50 μS (CCIR), 75 μS (FCC)	
rie-emphasis mode		v µ3, 3v µ3 (00 m), 73 µ3 (P00)	
POWER REQUIREMENTS			
	AC Supply Voltage	230 +/- 15%	VA VA C
	Active Power Consumption	4300 W	4950 W
AC Power Input	Overall Efficiency	Typical	
	Connector	Cable	
	Connector		•
MECHANICAL DIMENSIONS			
Phisical Dimensions	LxHxM	440 mm x 130 m	m x 520 mm
Weight		About 18 Kg	
AUDIO INPUTS			
Left / Mono & Right 10 kOhm or 600 Ohm (XLR F) Level: -3.5 to		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	
S CA / RDS		10 kOhm (2x BNC) Level: -8 to +13 dBu @ 75 kHz FM	
AES / EBU (OPTIONAL)		110 Ohm (XLR F)	
OUTPUTS			
DE sectoret		50 OL (7/09 DIA	(Congo (uno)
RF output		50 Ohm (7/8" EIA flange type)	
RF Monitor			-
Pilot output		>5 KOhm (BNC) a	pprox. 1 vpp
MAIN PROTECTION			

Bipolar termal switch with internal light

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

