



TX15K GX

15kW FM TRANSMITTER

Technical description





TECHNICAL SPECIFICATIONS:

Frequency Range:	87,5 - 108 MHz
RF output power:	15 kW typ; 14 kW min.
Exciter power:	15 W
Output power ALC stability:	± 3%
Harmonic and spurious emissions:	< 80dB
Output RF impedance:	50 Ohm
RF output connector:	flange 1-5/8"
RF sampling connector:	BNC
Modulation input:	-3.5 ÷ +12.5dBm
Modulation signal:	Mpx, L & R, Mono, Aux
S/N stereo:	>75dB
Power supply:	400 V _{ca} ± 15% 3phases with neutral
Total consumption:	<25 kVA
Suggested operative temp. range:	0 to- 35 °C, extreme: from - 5 to + 50 °C(*)
Relative humidity	up 95% not condensing
Dimensions (36 units 19"UL standard rack):	60 x 105 x 190 cm (W x D x H)
Weight(*)	250 Kg.

DESCRIPTION:

The system is composed of three high performance 4u amplifiers Sielco RFB5000GX incorporating the latest LDMos technology and high efficiency power supplies. Thanks to these innovations the efficiency of each amplifier module have been raised up to 70% which led to a reduction of total power consumption of around 10% compared to the previous generation of high power transmitters and to an even greater reduction in heat production. Also the total weight has been reduced of nearly 50kg. The good redundancy of the system assures the operative service also in case of partial or total failure of one or more amplifiers or power supply modules.

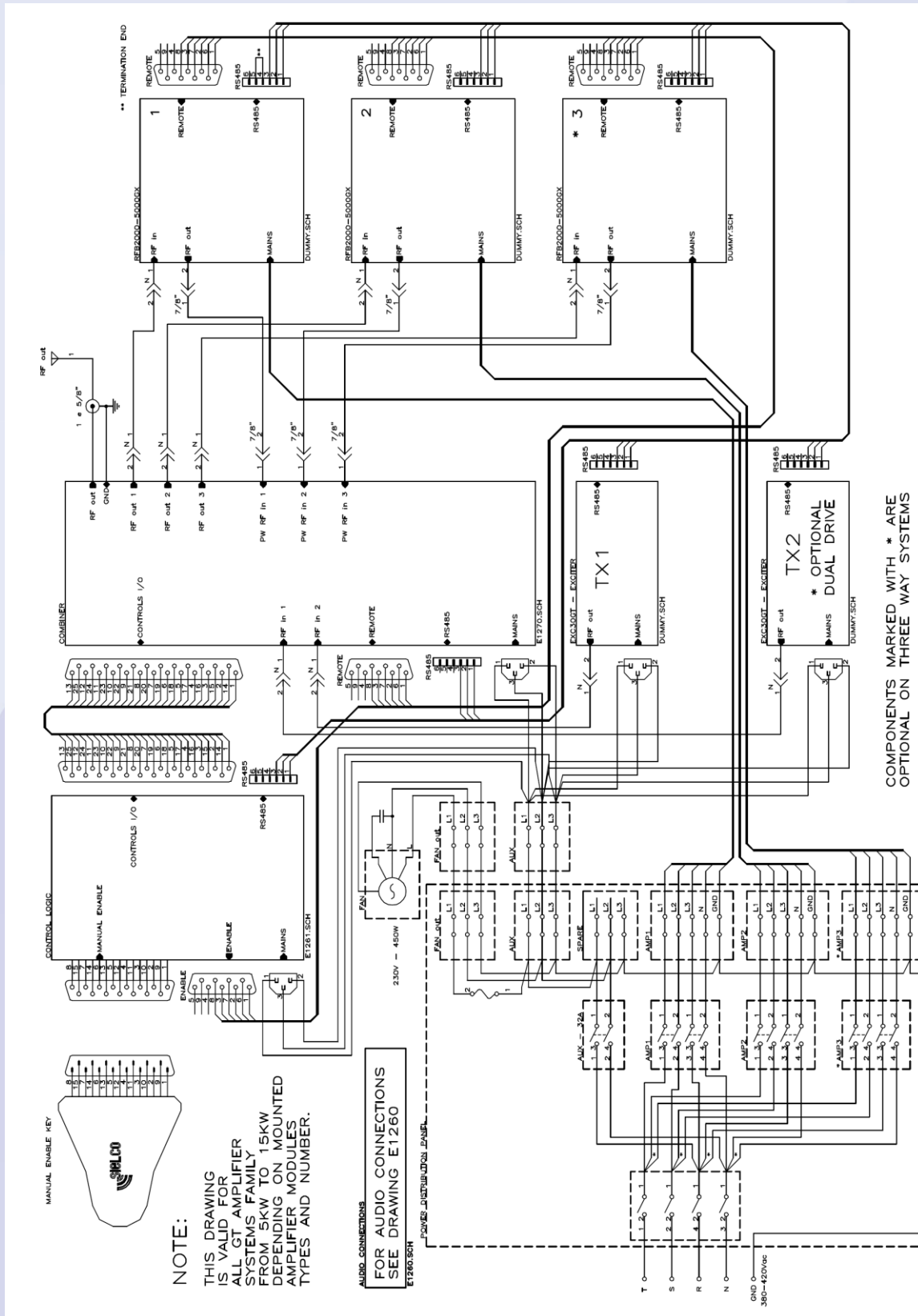
The system is natively arranged as Dual Drive, equipped with two Sielco EXC30GT exciters granting also space for some extra auxiliary parts. All the I/O connectors and cables are situated on the top of the apparatus, including the output flange of hot air conveyed by the ventilation system. The RF output may optionally be mounted on the backside of the rack.

The system could be remote controlled in an easy way through internet thanks to an internal WEB SERVER card. It is also possible a total or partial control through a GSM network using SMS from standard mobile phones.

* with the reduction of the power

♦ Net weight included the ventilation system

BLOCK DIAGRAM OF THE TRANSMITTER



Note: this diagram is for example purpose only

