



SEM 9X

USER'S MANUAL



Chapter 1. Installation.

1.1. Safety Measures

- 1.- Never place the equipment next to hot sources.
- 2.- Never undergo the equipment to temperatures that exceed the level of operation of the device.
- 3.- Do not expose the equipment to dripping or splashing.
- 4.- Do not place objects filled with liquids on the equipment.
- 5.- Respect ventilation slots of this equipment. Avoid covering them with any object.
- 6.- Keep clean and without obstacles a minimum radius of 40 cm around this equipment.
- 7.- Avoid locations with possibilities of spilling liquids on the inside of the device, and with important changes of temperature.
- 8.- Never open the equipment yourself due to electric risk. In case of problems, go always to qualified technicians..
- 9.- Never, under no circumstances, open the equipment connected to the electrical net.
- 10.- During the handling it is better to disconnect the equipment of the electrical net.
- 11.- Respect the electricity security rules during the assembling. Use materials that obey the current law.
- 12.- The connecting plug must be accessible in a fast and simple way to have a fast disconnection.
- 13.- Never touch the plug with wet hands. Also, disconnect always the device before handling the connections..
- 14.- Never put any heavy object over the device, as it could get damaged.
- 15.- If the equipment is going to remain some time without use, it is recommendable to disconnect it from the electrical net.
- 16.- The repairmen and the maintenance of the equipment must be done by TV and radio specialist technicians.

1.2. Box Content



SEM 9X



User's guide

1.3. Description and connexions

This family of multiswitches is used to make installations with a certain number of connected users and it is compatible with digital and analogical signals.

The models available allow us to distribute 8 polarities of two different satellites for 4, 6, 8, 12, 16, 24 or 32 receivers, making an independent commutation in order to receiver in each receiver the 4 polarities of each satellite. The inputs are independent for each satellite polarity.

All the models of this family are provided with an inner amplification in order to avoid the derivation loses and the distribution of the terrestrial band is active, the also have a passive return path.

The commutation criterion of the satellite signal will be made by the means of Toneburst or DiseqC 2.0 (13/18V and 0-22kHz).

These models can be used for single, twin and Quattro LNC, they also include an additional generator of 22kHz so we can use LNC QUAD.

Switching Criterion	Polarity / Band
13 V / 0kHz	Vertical / low
18 V / 0kHz	Horizontal / low
13 V / 22kHz	Vertical / high
18 V / 22kHz	Horizontal / high

SEM 932



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|-------|---|
| 1-4 | INPUT SAT A 950 – 2400 MHz (1.V/Low, 2.H/Low, 3.V/High, 4.H/High): Satellite Signal Input A |
| 5-8 | INPUT SAT B 950 – 2400 MHz (5.V/Low, 6.H/Low, 7.V/High, 8.H/High): Satellite Signal Input B |
| 9 | INPUT 5 – 862 MHz : Terrestrial signal input |
| 10-41 | 47-2300 MHz: Output (SAT + TERR) * |
| 42 | AC IN: Power supply cable (230V AC, 50Hz) |

(*) Note: In order to identify the outputs in the others models it is indicated with the arrow in the direction of the connector and the number of the respective output.

1.4. Accesories and example of installation

Accessories



Parabolic antenna 80cmØ
Mod. PR 80 Code. 0798021

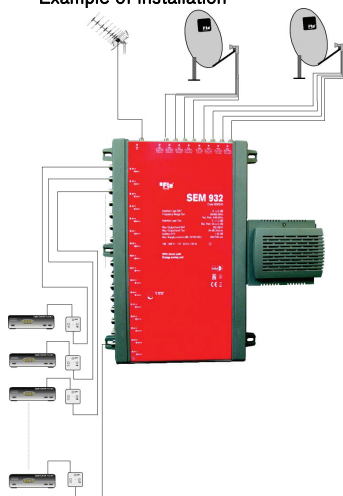


LNC Universal Quattro
Mod. LNC 544 Code.0400067



Outdoor antenna UHF
Mod. EVO 45 Code. 9003910

Example of installation



Satellite Digital Receiver
Mod. MAX S202 Code.0720024



Satellite Digital Receiver
Mod.MAX S101 HDMI Code.0720036

Example of fan installation for 32 users with 8 satellite polarities distributed by SEM 932 multiswitch. It allows the full reception (analogical and digital) of four satellites. In this case, in order to get to the different polarities of the four satellites, the receiver must have DiSeQc 1.0 or upper commutation standards.

Chapter 2. Technical features

Ref.	SEM 94	SEM 96	SEM 98	SEM 912	SEM 916	SEM 924	SEM 932
Code	0930021	0930022	0930024	0930026	0930028	0930030	0930032
Nr. of TERR/SAT inputs	1/8						
Outputs	4	6	8	12	16	24	32
Terrestrial							
Frequency margin	80-862 MHz						
Tap Losses	0 +/-2dB						
Max. output level	95 dBμV			93 dBμV		90 dBμV	
Regulation	-					20 dB	
Return Path							
Frequency margin	5-65 MHz						
Tap Losses	19+/-2dB	20+/-2dB		23+/-2dB	25+/-2dB	28+/-2dB	30+/-2dB
Satellite							
Frequency margin	950-2400 MHz						
Tap Losses	0 +/-2dB						
Max. Output Level	105 dBμV						
H,V Isolation	>25 dB						
Isolation between outputs	>20 dB						
Current consumption receiver 13/18V	70 mA						
Feeding, consumption	180-265V, 47-63Hz, 26W						
Generator 22 KHz	Yes						
Max. Power LNC 12/18V	500 mA / 700 mA						
Dimensions	80x100x400 mm			80x190x400 mm		80x350x400 mm	
Weight (g)	1060	1070	1080	1600	1600	1650	1700

Chapter 3. Conformity Declaration



CONFORMITY DECLARATION

"WE , FTE MAXIMAL, DECLARE THAT THE PRODUCTS
SEM 94, SEM 96, SEM 98, SEM 912,
SEM 916, SEM 924 AND SEM 932
ARE IN CONFORMITY WITH FOLLOWING DIRECTIVES
Low Voltage Directive 2006/95/EC
EMC Directive 2004/108/EC"

If you wish a copy of the conformity declaration, please contact to the company



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