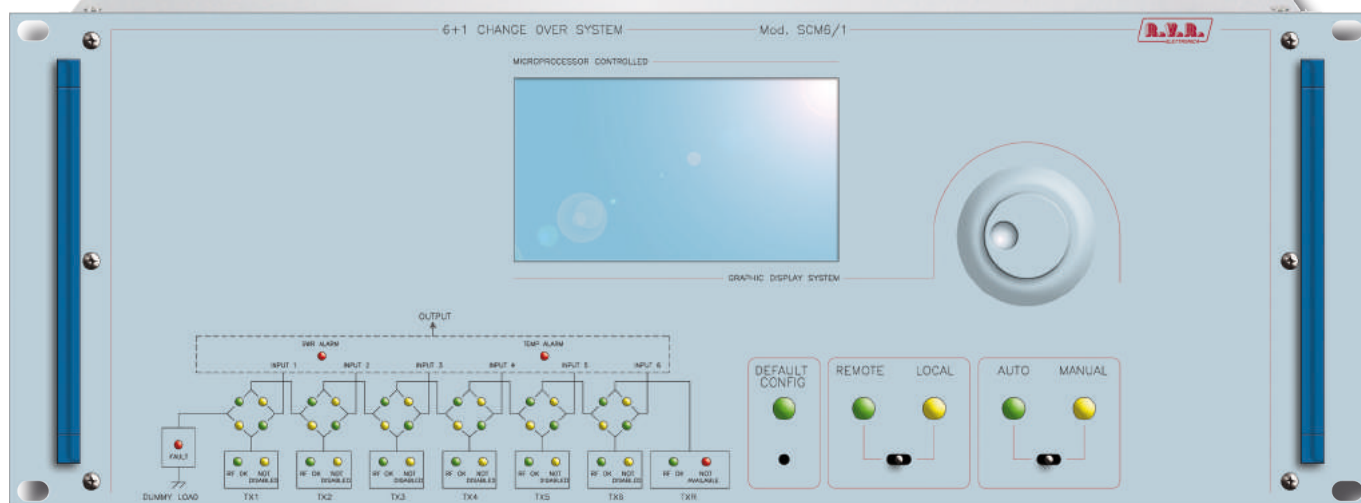


Telemetry & Changeover

> Changeover Unit

SCM6/1



SCM6/1 front view

Features

- > **PRIMARY APPLICATION:** the changeover system integrates the fundamental function of automatic changeover across main and spare transmitters so that it guarantee utmost continuous service.
- > **CHANGEOVER FEATURES:** the operating principles of **RVR** changeover systems for "6+1" consist in automatic changeover that takes place across many transmitters (up to 6) and a spare one. **RVR** designs and manufactures other accessories to be matched with the use of changeover system. These devices are specifically used for changeover and remote control of L & R audio (AUD6/1), MPX & RDS (RDS6/1) and AES/EBU signals (AES6/1).
- > **HARDWARE FEATURES:** the changeover system is housed in lightweight and rugged stainless steel rack cases having the dimension of 4 HE.
- > **USER-FRIENDLY FEATURES:** the front panel features many leds that indicate instant system status to the operator. Moreover, the user-friendly HMI with graphic display ensures prompt reading and setting up of all operating parameters. It is possible to control and vary any system setting through a simple knob (encoder).
- > **EASE OF MANTENANCE:** the changeover system is assembled using modules and boards with connectors so that it is easy to remove, replace and add modules and boards.
- > **INTERFACE CONTROL:** the rear panel features all connectors that could be used to connect the equipment to the various components of the stations.
- > **REGULATORY COMPLIANCE:** the changeover system comply with EC, FCC and CCIR standards.

Caratteristiche

- > **PRIMARY APPLICATION:** il sistema di scambio integra la fondamentale funzionalità di scambio automatico tra trasmettitori principali e di riserva, al fine di garantire la massima continuità di servizio.
- > **CHANGEOVER FEATURES:** i principi di funzionamento del sistema di scambio per "6+1" consiste nello scambio automatico che avviene tra più trasmettitori (fino a 6) ed uno di riserva. **RVR** ha progettato e produce altri accessori da affiancare all'utilizzo dello scambiatore. Questi apparati sono utilizzati specificatamente per lo scambio ed il controllo remoto di segnali audio L & R (AUD6/1), MPX & RDS (RDS6/1) e AES/EBU (AES6/1).
- > **HARDWARE FEATURES:** il sistema di scambio è realizzato in contenitore rack in acciaio inox incredibilmente leggero e robusto in dimensioni di 4 HE.
- > **USER-FRIENDLY FEATURES:** sul pannello frontale sono presenti una serie di indicatori led per un'immediata comprensione dello stato del sistema. Inoltre per tutti i modelli in produzione, un'interfaccia utente di facile comprensione a display grafico, permette la lettura e l'impostazione dei parametri di funzionamento. Per mezzo di una semplice manopola (encoder), è possibile controllare e modificare le impostazioni dell'intero sistema.
- > **EASE OF MANTENANCE:** il sistema di scambio è interamente assemblato con moduli e schede provvisti di connettori ad innesto, che consentono una facile rimozione, sostituzione ed aggiunta degli stessi.
- > **INTERFACE CONTROL:** sul pannello posteriore sono presenti tutti i connettori utilizzabili per i collegamenti degli apparati ai vari componenti delle stazioni.
- > **INTERFACE CONTROL:** il sistema di scambio rispetta ed è conforme alle normative EC, FCC e CCIR.

Telemetry & Changeover

BROADCAST
EQUIPMENT

Technical specifications

Parameter		SCM6/1 Value
GENERALS		
Ambient working temperature		-10 °C to + 50 °C / 95% relative Humidity non condensing
INPUT		
Digital		Specific RVR connectors, optocoupler isolated
OUTPUT		
Relay		Specific RVR connectors
POWER REQUIREMENTS		
AC Power Input	AC Supply Voltage	115 – 125 -230 - 250 VAC ±15%
	Active Power Consumption	50 W
	Connector	VDE IEC Standard
DC Power Input	DC Supply Voltage	24 VDC
	DC Current	< 2 A
MECHANICAL DIMENSIONS		
Physical Dimensions	L x H x W	483 mm x 176 mm x 334 mm
Weight		about 6,5 kg
Cooling		Forced with internal fans
Acoustic Noise		< 58 dBA
INTERFACES		
User Interface		Graphical LCD - 240 x 128 with Encoder
Signalling LEDs / Synoptical		Yes
TC/TS		Yes
FUSES		
On Mains		1 External fuse 4 A - 5X20 mm

All pictures are RVR's property and they are only indicative and not binding. The pictures can be modified without notice.
These are general specifications. They show typical values and are subject to change without notice.

CE 99/5/CE Revision: 10/13

Ordering Information

Code -Codice	Description - Descrizione
Options for SCM6/1 – Opzioni per SCM6/1	
AUD6/1	Audio signal switch unit for SCM6/1 changeover. Unità di scambio audio passiva per scambiatore modello SCM6/1.
INF6/1	RDS signal switch unit for SCM6/1 changeover. Unità di scambio per segnali RDS passiva per scambiatore modello SCM6/1.
AES6/1	AES/EBU signal switch unit for SCM6/1 changeover. Unità di scambio per segnali AES/EBU passiva per scambiatore modello SCM6/1.

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INF6/1 front view



AES6/1 front view



AUD6/1 front view

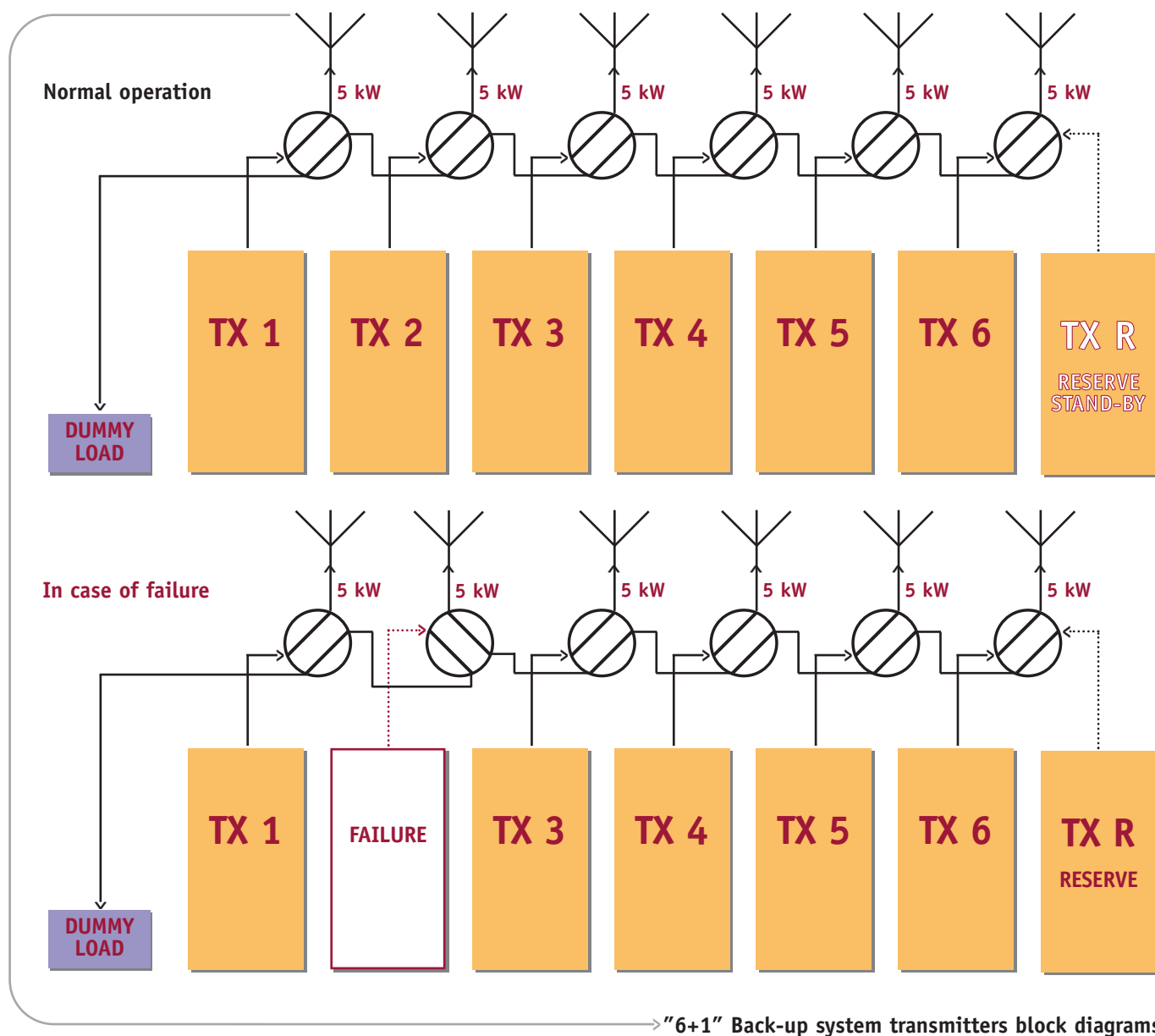


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Redundant transmitters system

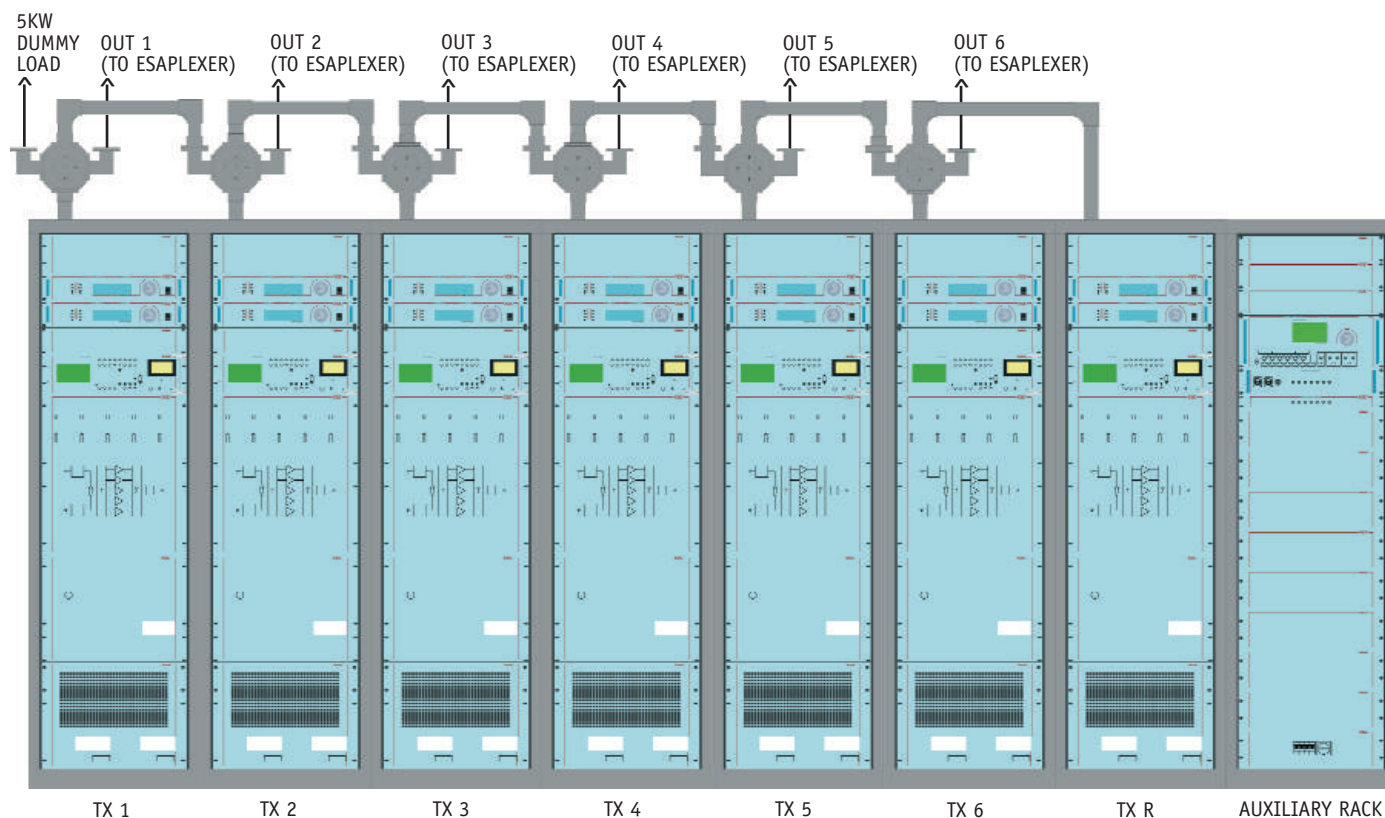
> "6+1" Active system transmitters



This system is composed of "N" transmitters connected to the antenna and 1 transmitter used as back-up unit that is connected to the dummy load.

In case one of the "N" transmitters fails **it is immediately replaced with the back-up unit** and the faulty unit is switched to the dummy load.

> "6+1" Active system transmitters



TX 5kw Plug-in "6+1 Backup System front view

The basic operations in a N+1 back-up system is identical to the 1+1 system plus those functions that are typical of this system:

- the power alarm is detected
- it activates both Interlocks on the faulty transmitter and on the backup unit
- it controls the coaxial relay transferring the faulty TX on the dummy load and the back-up TX on the antenna
- it sets the same frequency of the faulty transmitter on the back-up unit
- it switches the audio matrix from the faulty transmitter to the back-up unit

- it switches the RDS matrix
- it switches the interlock matrix in order to release the interlock of the load on the TX connected to the load and the interlock of the combiner on the back-up unit
- it turns on the back-up unit

Other functions are:

- Local/Remote
- Normal/Automatic
- parameter management
- timing management
- interface among the telemetry systems