

Section Public Address

Category Multi-channel systems

Range SD200 System

Code SDM200 / SDP220 / SDA200 / SDA200-T / SDB200

Description Multichannel distribution systems

The **SD200** system enables simultaneous distribution of 6 different programmes over a single pair of wires. The ease of installation as compared with conventional systems makes it particularly suitable for sound-broadcasting to the single rooms of accommodation facilities such as hotels, nursing homes, tourist centres, residential centres, cruise ships, ferries and private homes.



SDM200 RF six audio channel modulator

The heart of the system is the **SDM200** central unit, which enables six sound signals, generated locally by their respective sound sources (CD players, tuners, multimedia players, etc.) to be modulated and transmitted, mixed on a telephone pair. A pre-amplifying circuit controls the amplitude of the signals from the sources for correct modulation of the relevant carriers, which are generated by a stage that operates according to PLL technology with a quartzed reference frequency. The six modulated carriers are sent to an RF amplifier and then to the output sockets through an RF transformer that achieves balancing and the correct impedance. The SDM 200 modulator is able to supply a constant signal for a maximum of 80 SDP220 receivers. Repeated expansion in multiples of 80 is possible by including one or more SDB200 amplifiers on the signal line.

SDP220 Amplified six channel receiver

This unit demodulates the signals distributed by the SDM200 modulator. Even when the receiver is switched off, it can be activated from a remote station, by means of a 12VDC control. This feature enables forcing of emergency signals to be sent out for single receiving zones.



SDP220



SDP220-N

The module can be powered by a 12 VDC source or from the 230 VAC power mains through an SDT100 transformer contained in the SDA200-T loudspeaker module. The channels are selected cyclically by means of keys. The selected channel is shown on a display featuring automatic brightness adjustment in relation to the ambient lighting. The volume control is of the electronic type. It is possible to connect headphones to the socket provided for this purpose. It is available in pale grey (SDP220) and anthracite grey (SDP220-N).

SDA200 Loudspeaker

This module contains a 3W / 8Ω loudspeaker and can be connected to SDP220 receivers that are already powered. It is available in pale grey (SDA200) and anthracite grey (SDA200-N).



SDA200 / SDA200-T



SDA200-N / SDA200-TN

SDA200-T Loudspeaker/power supply for SDP220

In addition to the 3W / 8Ω loudspeaker, this module also contains a transformer, **SDT100**, from the mains 230 VAC voltage for the SDP220 receiver module. Available in light grey colour (SDA200-T) or black colour (SDA200-TN).

SDB200 Line amplifier

This module must be used if the length of the line attenuates the signal excessively or, in any case, if the number of SDP220 receivers is greater than 80. Each SDB200 enables a further 80 receivers to be added. It is possible to expand the system to a practically unlimited number of receivers using the appropriate additional SDB200 amplifiers.



SDB200



SDB200

For the 230 VAC mains power, it is necessary to add the **SDT101** transformer. Available in light grey colour (SDB200) or black colour (SDB200-N).

ACCESSORIES

SDT100 Transformer for 230 VAC mains power supply for the SDP220.

SDT101 Transformer for 230 VAC mains power supply for the SDB200.

Technical data

MODEL	SDM200		
Generator	6 frequencies, PLL type controlled by quartz oscillator		
Transmission frequencies	CH1 = 178 kHz CH4 = 277 kHz	CH2 = 211 kHz CH5 = 310 kHz	CH3 = 244 kHz CH6 = 343 kHz
Output power	Carrier frequency only: 10 mW/Channel With modulation: 50 mW Peak/Channel (80% mod.)		
Output voltage attenuation	~ 0 ÷ 26 dB		
Output line impedance	25 Ω oppure 100 Ω		
BF input impedance	150 kΩ		
Sensitivity for 30% modulation	150 ÷ 3.000 mV		
Power supply	230 Vca ±10% 50/60 Hz		
Dimensions (W x H x D)	411 x 44 x 235 mm		
19" rack mounting	With 27/2466 optional brackets (1U)		
Net weight	3,3 kg		

MODEL	SDP220 (-N)	SDA200 (-N)	SDA200-T (-N)	SDB200 (-N)
Power	1 W	3 W		-
Impedance	8 Ω			
Dimensions (W x H x D)	116 x 77 x 45 mm	116 x 77 x 35 mm	116 x 77 x 55 mm	116 x 77 x 40 mm

