

Technical Instructions

for the Compact multiswitches DMS 5802 NF, DMS 51202 NF and DMS 51602 NF



UL-Certification



The multiswitches meet the more stringent screening requirements according EN 50083-2, quality grade A. (The switches also meet the requirement of FCC part 15).



All components are equipped with an earthing terminal for connecting to the main potential equalization.

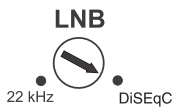
Important: please observe the following instructions !



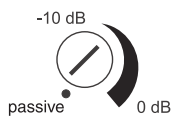
! Installation is only permitted in dry rooms and upon a non-combustible surface. Ensure that there is adequate air circulation.
 Wall mounting only with power supply housing at left or right side of the device (horizontal mounting).



The permissible ambient temperature range is:
 -20° C ... +35° C (-4° F to +95°F).



Select the correct LNB remote voltage.



Adjust the terrestrial input level.

Power Supply

The compact multiswitches have an internal energy-saving switch mode power supplies.

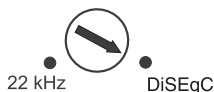
Nominal voltage AC: 100-240 V, 47-63 Hz.

Voltage range AC: 92-265 V, 47-63 Hz.

Power consumption (at max. LNB current):

SAT standby	terrestrial passive	2,5 W
	terrestrial active	6,5 W
SAT active	terrestrial passive	20 W (LNB 500 mA)
	terrestrial active	26 W (LNB 500 mA)

Power Supply to LNB



LNB	Input 1	Input 2	Input 3	Input 4
DiSEqC	12 V	12 V	12 V	12 V
22 kHz	12 V	12 V + 22 kHz	18 V	18 V + 22 kHz

The remote current must not exceed a total of 0.5 ampere.

The maximum permissible current per port must not exceed 0.5 ampere.

Mode selector

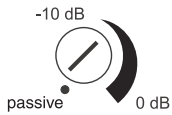


Mode	Input 1	Input 2	Input 3	Input 4
DiSEqC	SAT A + Opt. A (no analogue)	SAT B + Opt. A (no analogue)	SAT A + Opt. B (no analogue)	SAT B + Opt. B (no analogue)
22 kHz	< 15,5 V + 0 kHz (no DiSEqC)	< 15,5 V + 22 kHz (no DiSEqC)	> 15,5 V + 0 kHz (no DiSEqC)	> 15,5 V + 22 kHz (no DiSEqC)

It is recommended to switch both selectors (LNB Power Supply and Mode) to the same position.

Input Level

Terrestrial



An integrated push-pull booster makes the terrestrial amplifier unit (47 ... 862 MHz) CATV compatible.

The multiswitch is equipped with an adjustable attenuator in order to adjust the level of the terrestrial or CATV signals.

The input levels can be reduced in active operation by 0 ... 10 dB.

All the terrestrial signals can be passively distributed in the multiswitches.

To do this, the adjustable attenuator must be turned counterclockwise to the limit. The terrestrial amplifier is then switched off.

The signal is passively distributed in the "passive" position, the tap loss then is 21 to 25 dB according to type.

The multiswitches then become **return path compatible**.

SAT IF

The maximum input level is typically:

- **28,75 dBm for DMS 5802 NF**
- **30,75 dBm for DMS 51202 NF** and
- **32,75 dBm for DMS 51602 NF** with full

transponder load. The IF-signals are to be feed into the multiswitches in accordance with the labeling so that the logical assignment of the IF levels matches the switching criteria.

Stand-By Mode



The multiswitches have a stand-by mode.

The terrestrial stage remains in operation in **stand-by mode**. The satellite IF amplifier stages and the supply for the LNB are switched off. If a receiver or antenna test equipment with LNB power supply is connected to a subscriber output of the multiswitches, then this automatically switches to **standard mode**.

Max. output levels:

DMS 5802 NF	Range		dB μ V / 60 dB / EN 50083-3				dB μ V / 1R8-15			
			IMA ₃	IMA ₂	CTB	CSO	CENELEC-Raster	BK-Raster 36TV/24FM CTB/72dB	CSO/69dB	
	47-450	MHz	93	93	91	88	A: 19 K	84	78	
	47-606	MHz	93	90	88	85	C: 29 K	—	—	
	47-862	MHz	90	86	85	80	E: 42 K	—	—	
	950-2200	MHz	92	35 dB IMA ₃ / EN 50083-3						
	950-2200	MHz	92	35 dB IMA ₂ / EN 50083-3						

DMS 51202 NF	Range		dB μ V / 60 dB / EN 50083-3				dB μ V / 1R8-15			
			IMA ₃	IMA ₂	CTB	CSO	CENELEC-Raster	BK-Raster 36TV/24FM CTB/72dB	CSO/69dB	
	47-450	MHz	90	92	90	91	A: 19 K	83	79	
	47-606	MHz	89	86	88	88	C: 29 K	—	—	
	47-862	MHz	88	84	84	79	E: 42 K	—	—	
	950-2200	MHz	90	35 dB IMA ₃ / EN 50083-3						
	950-2200	MHz	90	35 dB IMA ₂ / EN 50083-3						

DMS 51602 NF	Range		dB μ V / 60 dB / EN 50083-3				dB μ V / 1R8-15			
			IMA ₃	IMA ₂	CTB	CSO	CENELEC-Raster	BK-Raster 36TV/24FM CTB/72dB	CSO/69dB	
	47-450	MHz	88	83	86	84	A: 19 K	79	71	
	47-606	MHz	87	83	83	83	C: 29 K	—	—	
	47-862	MHz	86	82	80	79	E: 42 K	—	—	
	950-2200	MHz	88	35 dB IMA ₃ / EN 50083-3						
	950-2200	MHz	88	35 dB IMA ₂ / EN 50083-3						