

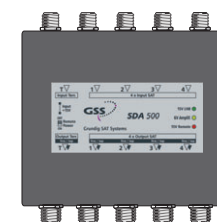
- ① **"Attenuation" knob**  
The output signals can be adjusted from 0 dB to -15 dB as required.
- ② **"Slope" knob**  
The slope of the output signals can be adjusted from 0 dB to -7 dB. (The slope is the difference between the levels of the upper and lower frequency ranges).
- ③ ④ **Input +15 V**  
Connections for power pack supplied.  
This is required if there is no remote power supply.  
After fitting the power pack on the wall, connect its jack plug ...
  - to socket ③ on the SDA 500
  - to sockets ③ and ④ on the SDA 900.
- ⑤ **"Remote power supply" switch**  
**Note:** If the system is supplied centrally by a power pack, set the switch to **ON**.

## 4 Specifications / Technical information

	SDA 500	SDA 900
SAT inputs	4	8
Terrestrial input	1	1
Outputs	SAT TERR 2	16 2
Frequency range	950 - 2200 MHz 40 - 862 MHz	
Gain	SAT LINE SAT TAP TERR LINE TERR TAP 32 dB 25 dB 25 dB 15 dB	
Isolation	> 70 dB	
Attenuation Slope	0 ... 15 dB 0 ... 7 dB	
Output level – IMA 3 –	SAT LINE SAT TAP TERR LINE TERR TAP max. 114 dBµV max. 107 dBµV max. 114 dBµV max. 104 dBµV	
Output level – IMA 2 –	SAT LINE SAT TAP TERR LINE TERR TAP max. 112 dBµV max. 105 dBµV max. 112 dBµV max. 102 dBµV	
Noise figure	8 dB	
Return loss	10 dB	
Operation voltage	15 V DC	
Current consumption	750 mA	
Ambient temperature	-20°C ... +50°C	
Dimensions approx. (WxHxD) [mm]	107x142x80	193x142x80

## Multiswitch – Amplifiers

**SDA 500**  
**SDA 900**



Contained in the scope of supply:  
Power supply:  
Input 100 - 240 V AC  
50/60 Hz, 0,8 A  
Output 15 V DC / 2 A



Contained in the scope of supply:  
Power supply:  
Input 100 - 240 V AC  
50/60 Hz, 1,2 A  
Output 15 V DC / 3,3 A

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# 1 Important information on safety and assembly

## Note



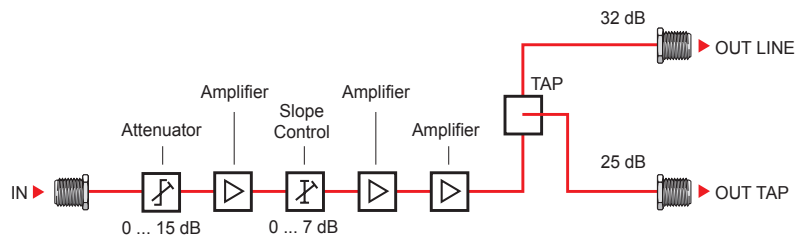
- Assembly and service must be carried out by an electrician.
- Check the system for short circuits in the coaxial cable before starting up.

- Mount the amplifier
  - on a non-flammable background (wall)
  - in a dust-free, dry environment
  - protected from moisture and water
  - somewhere protected from direct sunlight
  - away from the immediate vicinity of heat sources
- Make sure the input levels of the SAT stages are as equal as possible.
- Only install the system when disconnected from the 230 V mains power supply.
- Beware of short circuits.
- No liability is accepted for damage due to faulty connection or inexperienced handling.
- Obey all applicable standards, guidelines and directives (VDE0100, VDE0185, VDE0855, VDE0860, DIN18015, EN61319-1, EN50083 etc.).
- Earth the SAT receiver system via the equipotential bonding connector.
- Obey the national and local approval laws for broadcast receiver systems.

# 2 Technical description

## Application

The SDA 500 and SDA 900 modular amplifier systems have been specially designed for use in large SAT IF distribution networks. They have 4 and 8 satellite inputs respectively, a terrestrial input, two satellite outputs for each input level and two terrestrial outputs. The integrated splitters provide differently amplified signals at the TAP and line outputs. The signals for each line can be adjusted using the "Attenuation" and "Slope" knobs.



## Power supply

The amplifiers can have a remote power supply. According to the total current consumption of the SAT distribution network calculate additional power packs (e.g. SDP 900 / 1700).

# 3 Connections and controls

## Example installation

