

TECHNICAL SPECIFICATION :



Model	410	220	40	20	10
OutputPower (@ 100V)	4x 120Wrms	2x 240Wrms	1x 480Wrms	1x 240Wrms	1x 120Wrms
THD (@ 1kHz – rated power)	<1%	<1%	<1%	<1%	<1%
Frequency response @rated power (0,-3dB)	35Hz-18kHz	35Hz-18kHz	35Hz-18kHz	35Hz-18kHz	35Hz-18kHz
Frequency response @rated power (0,-10dB)	20Hz-20kHz	20Hz-20kHz	20Hz-20kHz	20Hz-20kHz	20Hz-20kHz
Channel separation (at 1kHz)	>80dB	>80dB	>80dB	>80dB	>80dB
Signal to Noise ratio	>86dB	>86dB	>86dB	>86dB	>86dB
Input sensitivity	1V (@ 10kΩ)	1V (@ 10kΩ)	1V (@ 10kΩ)	1V (@ 10kΩ)	1V (@ 10kΩ)
Gain range (input trimmer)	>28dB	>28dB	>28dB	>28dB	>28dB
AC power supply	230VAC 50Hz	230VAC 50Hz	230VAC 50Hz	230VAC 50Hz	230VAC 50Hz
AC power consumption @rated power	1280W	1280W	1280W	640W	320W
AC fuse	4x 2.5A slow	2x 5A slow	1x 8A slow	1x 4A slow	1x 2A slow
DC power supply	24VDC	24VDC	24VDC	24VDC	24VDC
DC power consumption @rated power	30A	30A	30A	15A	7,5A
DC idle current	0.6A	0.38A	0.27A	0.23A	0.16A
Dimensions (WxHxD)	425x132x425	425x88x420	425x132x355	425x88x305	425x88x305
Weight	22kg	18kg	16kg	10,5kg	8,5kg

SINUS 410 Amplifier
SINUS 220 Amplifier
SINUS 40 Amplifier
SINUS 20 Amplifier
SINUS 10 Amplifier

MAINS ERROR INDICATOR : (version 2016)

The factory default setting is as shown on the rear panel :

- open, when no main power present or fuse blown –
- closed on correct operation at 230V power supply

To stay compatible to units delivered until end 2015, the behaviour of the indicator is configurable. It may be inverted by an internal jumper setting.

(If configuration is changed, please mark it on the back panel by using a permanent marker or similar)

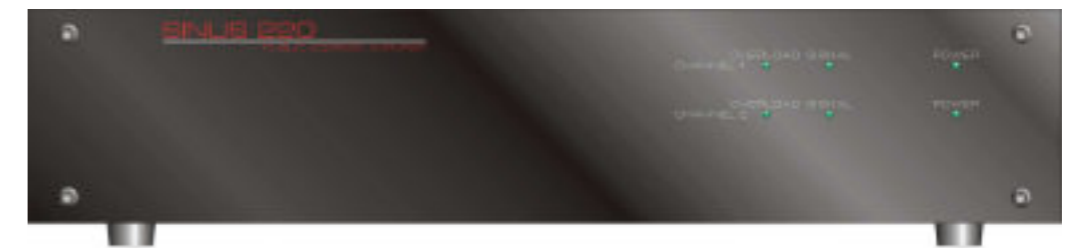
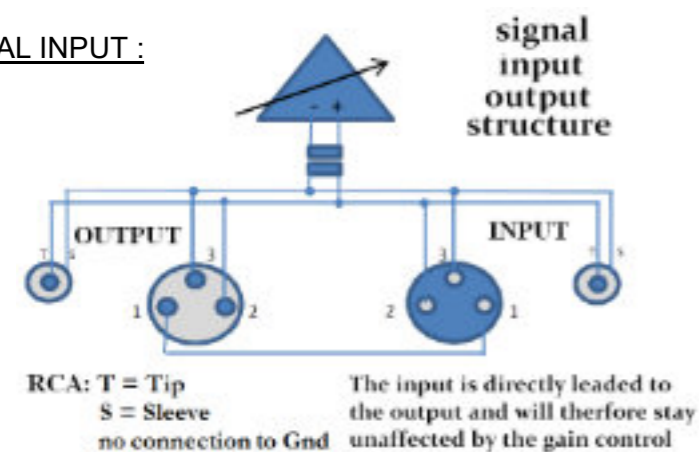


Professional 100V amplifiers
 230VAC & 24VDC
 for Voice Alarm and
 Public address system

NOTE: This configuration is only to be proceeded by authorized technician !

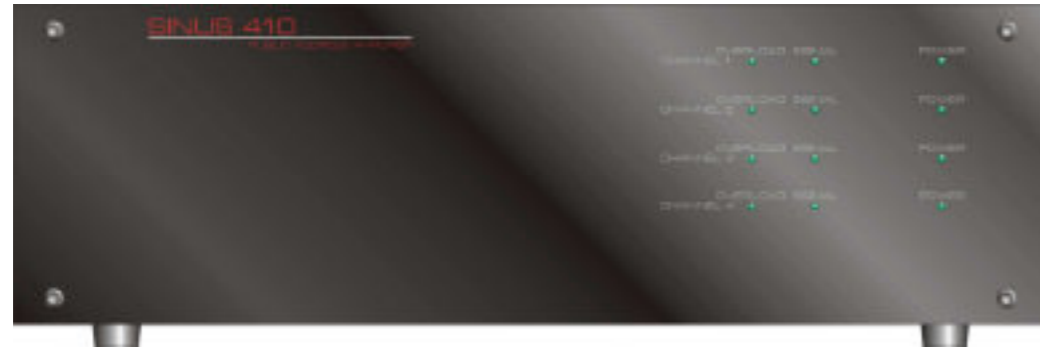
Risk of electrical shock. Hazardous live parts inside. Disconnect the mains power cord before removing cover !

SIGNAL INPUT :

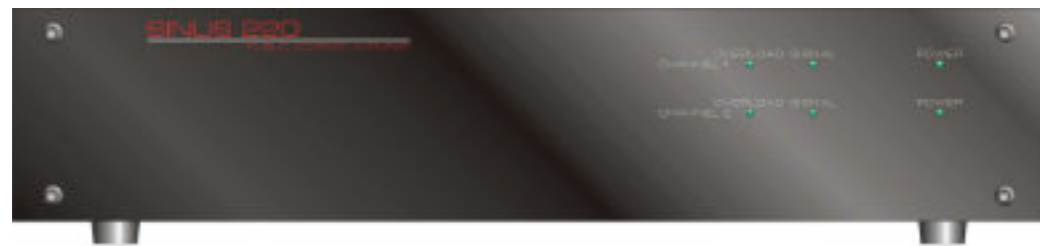


2017

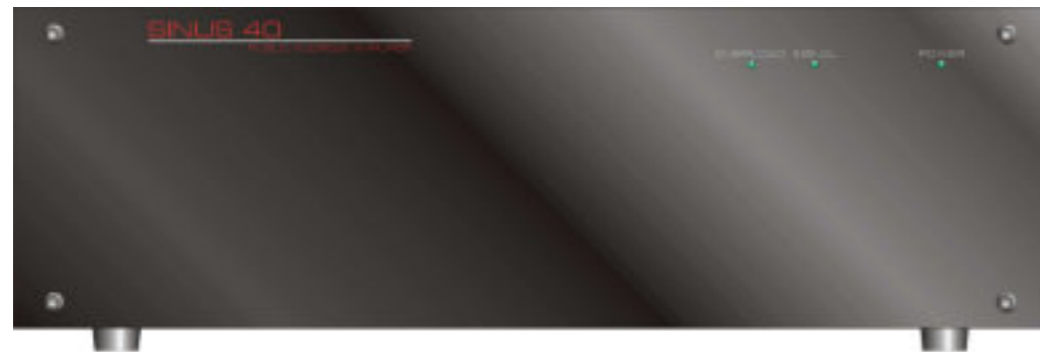
SINUS 410 amplifier :



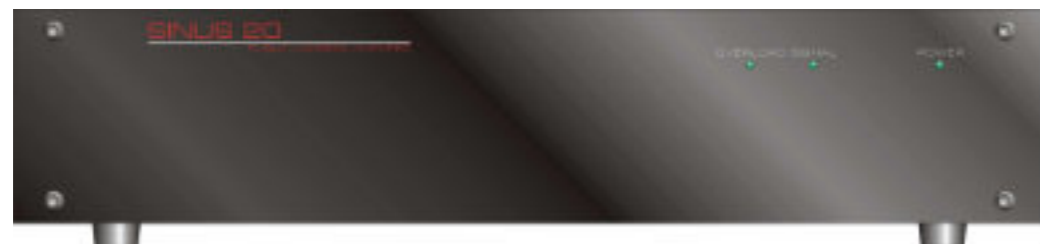
SINUS 220 amplifier :



SINUS 40 amplifier :



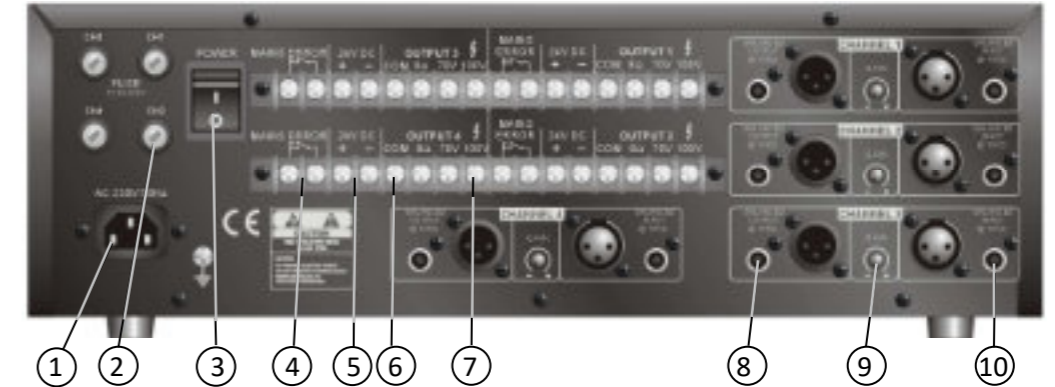
SINUS 10 / 20 amplifier :



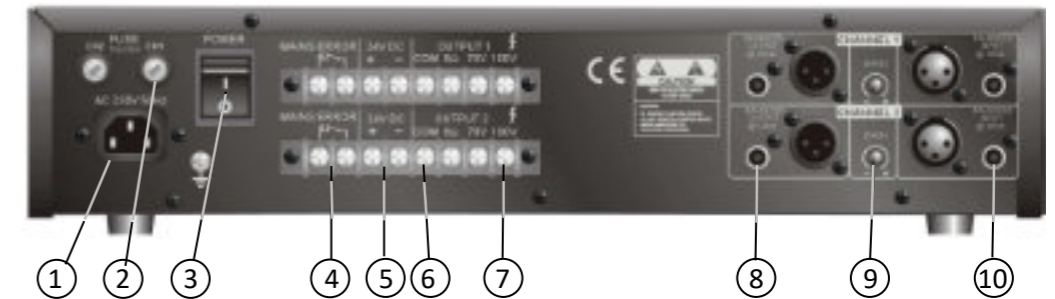
Indicators per channel :

- Power LED - illuminates when 230VAC/24VDC is connected
- Signal LED - illuminates when input signal is present
- Overload LED - illuminates when output signal is clipping

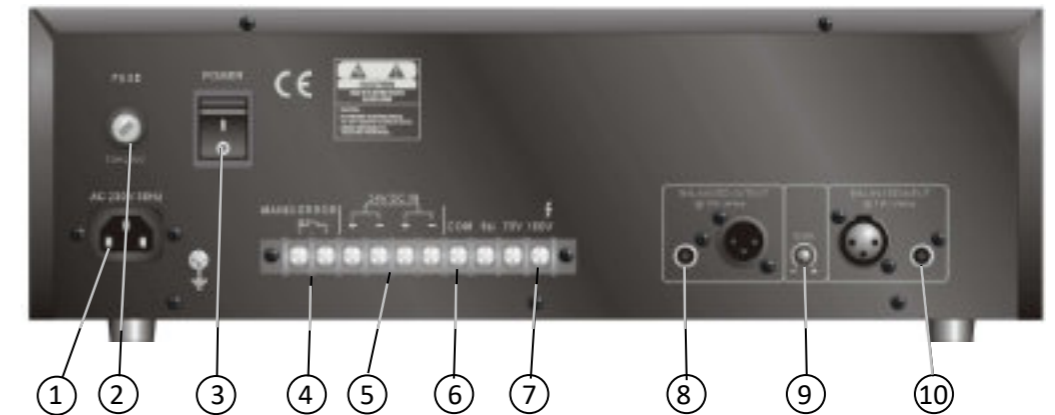
SINUS 410 amplifier:



SINUS 220 amplifier:



SINUS 40 amplifier / similar to SINUS 20/10 amplifier



On each model:

1. AC mains connection
2. Fuse (per channel)
3. Power Switch (Only 230V AC)

Per channel:

4. MAINS ERROR, configurable by internal jumper setting (refer note on last page of this manual)
5. 24VDC connection (Always connect all the available 24V clamps of the amplifier)
6. Loudspeaker 'COM' terminal
7. Loudspeaker 8Ω / 70V / 100V terminal
8. Audio output (pass through) - Balanced XLR(M) and unbalanced RCA jack
9. Gain control (does n o t affect the parallel pass-through output)
10. Audio input - Balanced XLR(F) and unbalanced RCA jack