



AD32

Audio Adaptor

*Isolation transformer, balancer,
mixer, attenuator and filter for audio signals*



TECHNICAL MANUAL – INSTALLATION PRELIMINARY DOCUMENTATION

Product entirely developed and manufactured in Italy

Made in Italy by TEMA TELECOMUNICAZIONI S.r.l. WWW.TEMATLC.IT

Recommendations

1. Use only original spare parts and consumables supplied by Tema Telecomunicazioni Srl for this equipment. The company shall not be held responsible for any damage caused by the use of materials that they have not supplied.
2. The device has been carefully manufactured and tested. In any case, the product is not recommended for use in situations in which incorrect operating may result in damage to persons and/or property.
3. We recommend that you carefully read all this manual before starting to use the device.
4. Do not expose the device to sunlight and protect it from sources of heat, dust, humidity and chemical agents.
5. This manual is the property of Tema Telecomunicazioni Srl and any duplication and reproduction, even partial, as well as storage on any type of media is forbidden without written permission from Tema Telecomunicazioni Srl.

| Revision | Date | Revision reason | Prepared | Checked/Approved |
|----------|------------|-----------------|----------|------------------|
| 1 | 09/05/2020 | Update | DP | FL |

PRESENTATION

AD32 is a transformer / isolator / balancer / mixer for audio signals designed to be connected between a generic source and the input of the AD300 series systems. **AD32** is made into a standard 1-module DIN rail mounting box and has an audio input valid for mono or stereo signals from a generic source. It has an audio output to be connected to the amplifier system input. It is possible to set it to also work as a level attenuator to better adapt a "high" level (present for example on the power output of a loudspeaker of the generic source to be connected) to an acceptable level for the input of the amplification of the AD300 series. It is possible to attenuate the input signal by about 6dB or 20dB. **AD32** filters the incoming audio ensuring the passage of the only frequencies useful for audio playback with AD300 systems.

FEATURES

- Optimal bandwidth, high fidelity, transformer decoupling between input / output
- Two attenuation levels of the input signal that can be set

PARTS COMPRISING THE SYSTEM (PACKING LIST)

The **AD32** system consists of the parts included in the following list:

- One **AD32** device, one DIN rail segment, two anchors and two screws, this user manual

TECHNICAL FEATURES

| | |
|------------------------------------|---|
| Input level | From 0.1 to 15 V _{AC} peak-to-peak, input / output transfer about 1: 1 |
| Maximum peak input level | Max 48V _{AC} peak-to-peak |
| Output level | Typically 1:1 or attenuable in two steps |
| Output impedance | 1000 Ω @ 1KHz |
| Input impedance | About 4700 Ω @ 1KHz in normal operation About 200 Ω with input attenuation set for -6 / -20 dB |
| Frequency response | 120 Hz ÷ 20 KHz (suitable for reducing any mains hum) |
| Temperature / Relative humidity | -40°C / +85°C / 95% non condensing |
| Isolation between input and output | 250V continuous (1500V pulse) |
| Dimensions and Weight and Mounting | W 17 x H 90 x D 60 mm (1 U DIN), 55 g, DIN rail mounting |

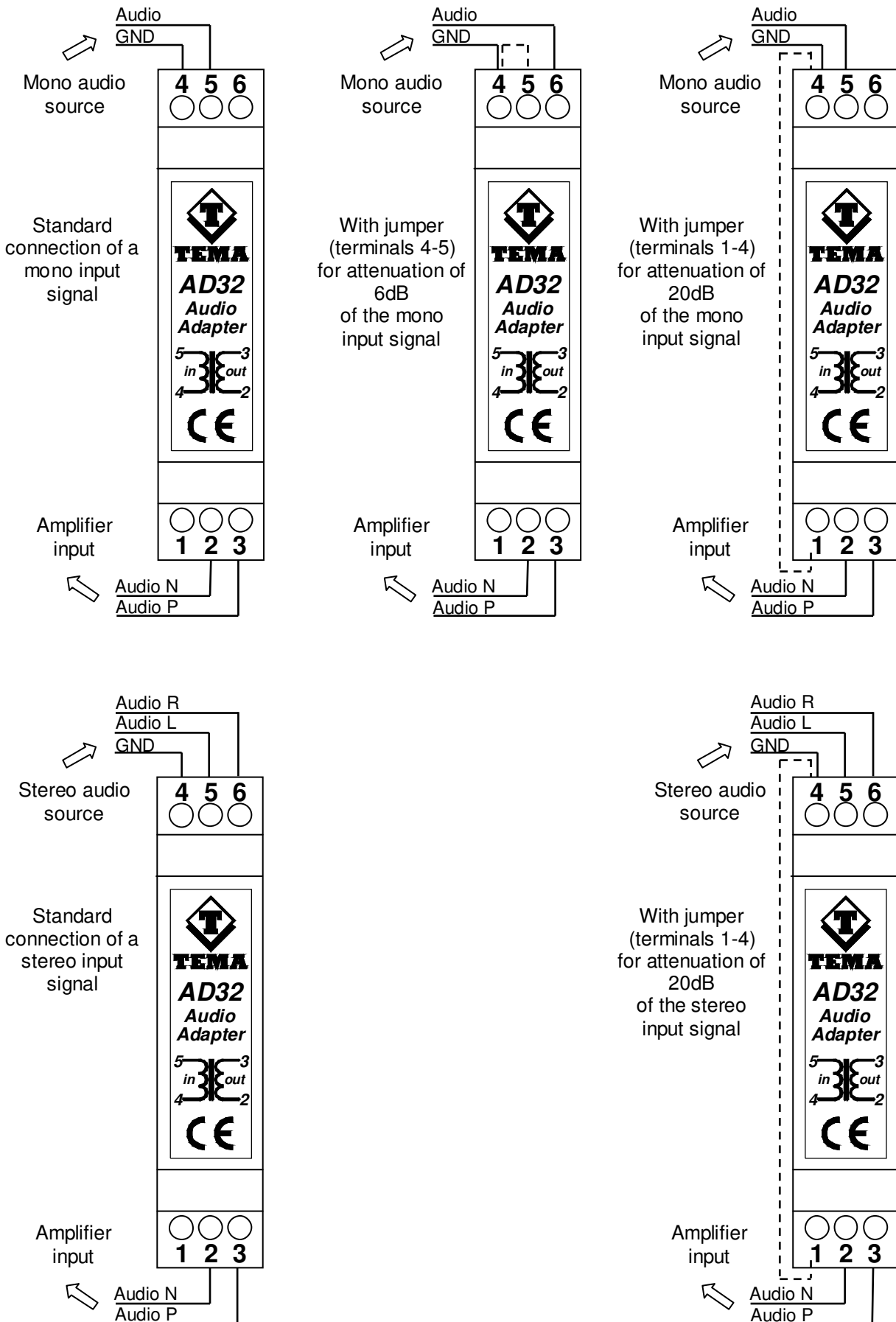
FRONT VIEW, INSTALLATION AND CONNECTIONS

| | |
|--|---|
| Input terminals: signal from MONO source | |
| 4 | GND audio source input (common) |
| 5 | Can be used as mono input, or closed with a wire towards terminal 4 to obtain the -6 dB input attenuation level bringing the audio signal on terminal 6 |
| 6 | Alternative input mono audio source |
| 1 | Do not connect or use only closed with a wire to the terminal 4 to obtain the -20 dB input attenuation level |

| | |
|---|--|
| Input terminals: signal from STEREO source (the -6dB input attenuation is not available) | |
| 4 | GND audio source input (common) |
| 5 | IN1 audio source input or Left channel |
| 6 | IN2 audio source input or Right channel |
| 1 | Do not connect or use only closed with a wire to the terminal 4 to obtain the -20 dB input attenuation level |

| | |
|-----------------------|---|
| MONO output terminals | |
| 2 | Transformer audio output (common) |
| 3 | Transformer audio output (audio signal) |

CONNECTION EXAMPLES





DECLARATION OF CONFORMITY (DoC)

We, **TEMA TELECOMUNICAZIONI SRL** Via C. Girardengo, 1/4 - 20161 MILANO
declare under our sole responsibility that the product:

product name **Audio Adapter**
 trade name **TEMA TELECOMUNICAZIONI Srl**
 type or model **AD32**

to which this declaration relates is in conformity with the essential requirements and other relevant requirements of the R&TTE Directive (1999/5/EC).

The product is in conformity with the followings standards and/or other normative documents:

HEALT & SAFETY EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011

EMC ETSI EN 301 489-1 V1.9.2, ETSI EN 301 489-7 V1.3.1

MILANO, 16 July 2015

TEMA TELECOMUNICAZIONI SRL
 D. Pontillo

I. IMPORTANT INFORMATIONS REGARDING THE RECOVERY AND RECYCLING OF THIS ELECTRONIC DEVICE

The crossed-out wheeled bin symbol below indicates that this electronic equipment is intended to be dis-posed in a separate collection and not in an unsorted municipal waste, in order to provide for the treatment of WEEE (Waste Electrical and Electronic Equipment) using best available recovery and recycling techniques.

Specific treatment for WEEE is indispensable in order to avoid the dispersion of pollutants and other hazardous substances into the waste stream, while recycling leads to reduction of disposal of waste and the negative impacts on environment and human health. That is, priority is given to reuse of WEEE in its components, subassemblies and consumables.

As the final holder, the user has an important role in contributing to reuse, recycling and other forms of re-covery of WEEE and is responsible to return this waste in the collection facilities set up by EC Member States and to fulfill other duties in compliance with Directive 2002/96/EC and local laws.

