



**The professional audio amplifiers of the axxent TS series are optimised for use in fixed installations.** The 2-channel model AX2120TS-D complements this series with an output power of 120 W/channel and 240 W mono bridged per pair. **In addition to the analogue inputs, this model has a Dante digital input for easy networking. The switching power supply saves weight and increases efficiency and power balance.**

Each of the 2 channels offers an independent clip limiter with separate indicators on the front panel. Excellent audio quality throughout the power range is supported in the inputs by special balanced integrated circuits with high common-mode rejection.

In addition to the constant voltage outputs with 70 and 100 V taps, low-impedance outputs are also available.

Galvanic isolation by means of high-quality audio output transformers enables earth-fault monitoring and serves to protect the 100 V lines against accidental contact.

The rated output power is 120 W into 100 V and 4 and 8 ohms per channel. These flexible output configurations make the AX2120TS-D 2-channel amplifier the ideal choice for use in fixed installations. The two amplifier channels can be operated individually or in bridge mode (1x234 W at 16 ohms) for power bundling. The only adjustment elements on the front panel are the input level controls. To protect against unintentional or unauthorised adjustment, the control knobs can be removed and replaced with the supplied blanking plugs.

The connections - inputs: analogue balanced XLR and digital with Dante compatibility. Analogue/digital switching is individually selectable for all two channels. All outputs, low impedance and 70 V/100 V, have 5-pin Phoenix screw terminal connectors. Mains voltage input via IEC connector. The robust housing is made of reinforced, powder-coated sheet steel. CE certification for Europe-wide use.

### The most important features

- ✓ Output power 2x120 Wrms with all constant voltage output configurations (70/100 V) and with low impedance outputs (4 and 8 ohms). In bridge mode 1x234 Wrms at 16 Ohm.
- ✓ Analogue balanced XLR inputs, digital Dante input. All four channels switchable analogue/digital.
- ✓ Euroblock output connector for all outputs.
- ✓ High-quality audio output transformers for galvanic isolation enable earth-fault monitoring and serve to protect against contact with 100 V lines.
- ✓ Two-speed fan with automatic control.
- ✓ Removable knobs and blanking plugs and rear on-off switches for security against unauthorised change of settings.
- ✓ IEC mains socket on the rear of the unit facilitates cabling in the rack.
- ✓ Dimensions: 484 x 88 x 330 mm (WxHxD)
- ✓ Net weight: 9.6 kg without enclosed mains cable
- ✓ Scope of delivery: amplifier, mains cable, 4 blanking plugs
- ✓ European quality product



### Technical Data Class AB output stages

**Output power 100V (equal for 8 Ohm) Power 1 kHz**

**THD 1%**

single-channel operated ..... 122 W per channel  
two channels operated ..... 119 W per channel  
Bridge mode (min.16 Ohm) ..... 238 W bridged

**Frequency response +0/-2dB**

20 Hz 20 kHz

**Distortion factor at -1 dB below nominal output power**  
<0,2%

**Intermodulation distortion 60Hz and 7kHz at 4:1, -1dB below nominal output power**

<0,4%

**Input sensitivity analogue input at nominal power**

0dBu (775 mV)

**Voltage Gain, 100V**

140x(42,9dB)

**Voltage Gain, 8Ohm**

38x(36,6dB)

**Input impedance**

10 kOhm unbalanced

20 kOhm balanced

**Common mode rejection (1kHz)**

>80dB

**Signal-to-noise ratio**

>90dB

**Signal to noise ratio, „A“ weighted**

>100dB

**Crosstalk**

>80dB

**Input sensitivity Dante input at nominal power**

0dBu (775 mV)

**Switch to sensitivity ON**

-9dBu(270mV)

**Voltage gain 100V**

146x(43,2 dB)

**(Sensitivity -9dB)**

348x(50,8 dB)

**Voltage gain 8 Ohm**

42x(32,5dB)

**(Sensitivity -9dB)**

103x(40,3dB)

**Sampling rate**

48kHz

**DA converter**

24bit

**Input connector, analogue**

3-pin XLR female, balanced

**Input connector, digital**

RJ45 socket, Dante conform

**Output connector**

5-pole Phoenix terminal connector  
4 Ohm, 70 V and 100 V constant voltage

**Cooling**

2 speed fan

**Protective measures**

Overload, short circuit, thermal

**Mains voltage**

230V AC / 50 Hz

**Dimensions**

483x88x330 mm (WxHxD)

**Weight**

9.6 kg without packaging and power connection cable (enclosed)



## OPERATING ELEMENTS BACKSIDE

- 1: Mains switch
- 2: Mains plug connection
- 3: Analogue / Dante switch
- 4: Switch for digital sensitivity 0dB / -9dB
- 5: Ethernet Dante connection
- 6: Dante reset button
- 7: 2x analogue XLR input
- 8: 2x Phoenix 5-pole plug output

## OPERATING ELEMENTS FRONTSIDE

- 1: Volume control (each channel)
- 2: Operating display (each channel)  
Signal display (each channel)  
Limit value display (each channel)
- 3: bridge display  
1x Protect indicator

## Performance characteristics (measured with 4-channel operation)

Duty cycle	Power draw	Current draw	Volt-Ampere	Power factor
IDLE	28W	0.28A	65	0.43
1/8	162W	1.13A	268	0.60
1/3	243W	1.65A	385	0.63
1/1	392W	2.5A	605	0.65

## Tender text

Two-channel audio power amplifier with constant voltage outputs (70/100 V) and additional low-impedance outputs; rated output power 2x120 W (RMS) into 70/100 volt and 8 ohms, bridged 238 W into 16 ohms; energy-saving switch-mode power supply, inputs 3-pole XLR connector analogue and RJ45 connector for Dante digital input signal. Outputs: 5-pin Euroblock (Phoenix) screw terminal connections. Two-speed fan, automatically controlled. LED indicators for operation, signal, limit and bridge operation as well as protection function. Adjusters at the front for gain (volume), which can be covered to prevent accidental misuse. Blanking plugs included in delivery. Mains switch on rear of unit; detachable mains cable, IEC plug. Dimensions 483x88 (2U) x 330 mm (WxHxD). Net weight 9.6 kg. The amplifier shall be an axxent model AX2120TS-D.

