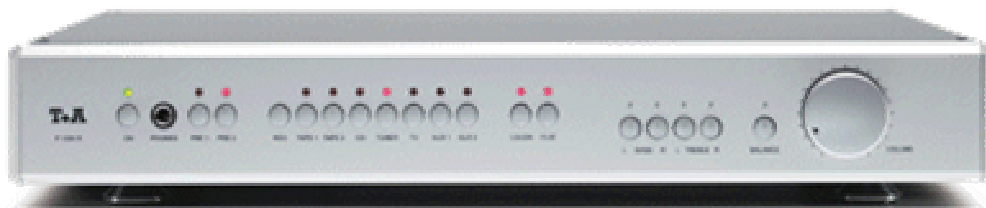


## Analogue pre-amplifier - PULSAR P 1230 R



The P 1230 R is a great secret known to all. The P 1230 R supplies simply outstanding sound and superb measured results, and this is due to the overall design and construction of the unit. The sonic qualities and technical characteristics are optimised by the use of double-sided conductor boards with Powerplan, close-tolerance components (FKP capacitors, high-quality op-amps, metal film resistors, and much more). The signal paths are kept short, and even at the input selector switch they are optimised in such a way that conductor inductivity, capacitance and overload margins are pushed to the very limit of what is measurable. Gas-tight gold-contact relays are employed to switch the source devices, in order to ensure freedom from harmonic distortion and background noise.

### Connection elements



<b>GND</b>	The ground lead from an analogue disc player is connected here in order to avoid hum.
<b>CD</b>	Input sockets for connecting high-level signal sources such as CD player.
<b>TUNER</b>	Input sockets for connecting high-level signal sources such as tuner.
<b>AUX 1</b>	General-purpose pre-amplifier input with an input sensitivity of 250 mV / 20 kOhm.
<b>AUX 2</b>	General purpose pre-amplifier input with an input sensitivity of 250 mV / 20 kOhm. If an <b>MM</b> or <b>MC</b> phono module is fitted then <b>AUX 2</b> is the phono input.
<b>TAPE 1</b>	Input and output sockets for connecting devices which can record and play back (recorders).
<b>TAPE 2</b>	Input and output sockets for connecting devices which can record and play back (recorders). The input is equipped with an input buffer to be connected to source units with high output impedance (>1 kΩ ).
<b>TV</b>	Input sockets for connecting high-level signal sources such as TV or VCR. The input is equipped with an input buffer to be connected to source units with high output impedance (>1 kΩ ).
<b>PRE 1</b>	Variable asymmetrical pre-amplifier output fitted with cinch sockets. As this is a very low impedance output it is suitable for long leads (e.g. to connect active speakers).
<b>PRE 2</b>	With optional <b>XLR</b> module: Symmetrical output (XLR or TRIAX) for connecting active speakers or mono-blocks. A symmetrical connection is ideal for use with very long leads since it has inherently good interference rejection characteristics.

<b>TASI</b>	Connection to T+A Surround decoder.
<b>CTRL</b>	With optional remote control module: Remote control output to control a T+A amplifier via remote control lead RZ 001
<b>RC Out</b>	The remote control signals are transferred to the source devices via the remote control leads <b>RZ 001</b> , which are plugged into the <b>RC-OUT</b> sockets.
<b>RLink</b>	Control output – preparation to control futur "R"-system components with extendend functions. A software update may be necessary.

## Specifications

*Frequency response + 0 –3 dB* 0,5 Hz – 400 KHz

### Signal: noise ratio (A-weighted)

*High level* 7 x 107 / 112 dB

*Phono MM* 83 / 87 dB (Non-standard version)

*MC* 79 / 82 dB (Non-standard version)

*Subsonic filter* fixed (Non-standard version)

*Total harmonic distortion* < 0,001 %

*Intermodulation* < 0,001 %

*Channel separation* > 90 dB

### Nominal input sensitivity

*High level* 250 mV / 20 kOhms

*MM* 1 – 5 mV

16 capacitances (Non-standard version)

*MC* 60 – 1000 uV

16 impedances (Non-standard version)

### Outputs

*Headphones* 50 Ohms

*2 x Tape* 250 mV / 100 Ohms

*PRE out Cinch nominal* 1 V eff

*Cinch max.* 9,5 V eff

*Impedance* 22 Ohms

*PRE out XLR nominal* 1,45 V eff (Non-standard version)

*max.* 19,6 V eff (Non-standard version)

*Impedance* 22 Ohms (Non-standard version)

*Dolby Surround interface* present

*Reservoir capacity* 10000 uF

*Mains supply 110 V or 220 / 240 V, 50 Hz* 30 VA

*Dimensions* 7,5 x 44 x 39 cm

*Weight* 7 kg

*Colours* Black (9005), silver aluminium, chrome

*Remote control* (Non-standard version)

Phono module replaces one high-level input

*We reserve the right to alter technical specifications.*