

Power amplifier for norm signals / Set point-amplifier

LV200

Characteristics:

- Output 0...±10V / ±200mA
- Offset and amplification adjustable
- Supply 24VDC
- Mountable on 35mm cap rail TS35
- Clear terminal labeling
- Narrow design
- Shape22, 5mm, low
- High reliability, 5 years warranty



Description:

The devices of the power- / set point amplifiers series LV200 have been developed for the power amplification of voltage values 0...±10V and can be loaded up to ±200mA. Offset „0“ and amplification „V“ are adjustable via a 20-way rotary switch.

Driven is the power amplifier by an analog signal of 0...±10V, 0...±20mA or 4...20mA. The maximum output voltage can be adjusted with potentiometer „V“ in the range of 0...100% of the input value.

Application:

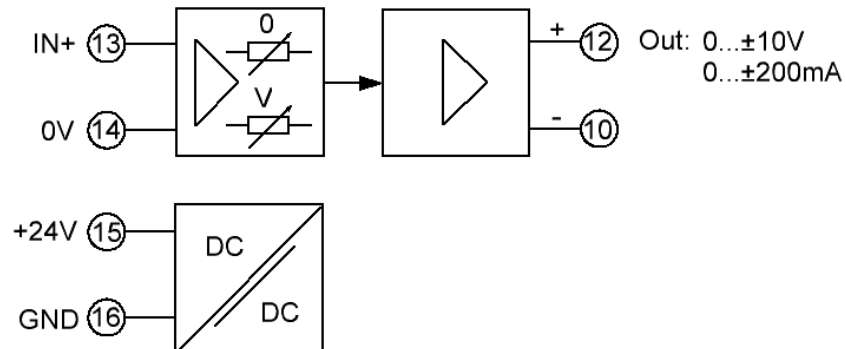
Supply of a set point cascade
Driving of set point inputs with low impedance

Order-No.:

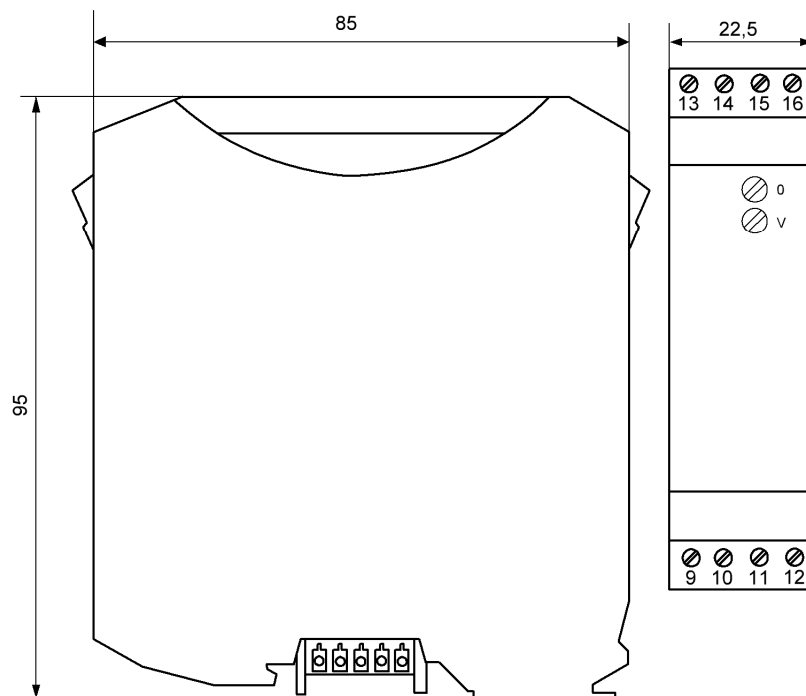
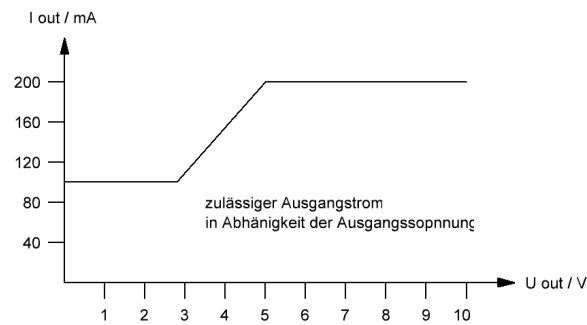
Input:

LV200-

0...±10V	1
0...±20mA	2
4...20mA	3



Derating Curve



Technical data

Supply power:

Supply voltage	:	19, 2...30VDC
Current consumption	:	max. 4 VA at $U_b=24V$

Inputs:

Voltage input	:	0...±10V / $R_{in} = 44k\Omega$
Overload	:	max. 50V
Current input	:	0...±20mA, 4...20mA / $R_{in} = 100\Omega$
Overload	:	max. 50mA

Outputs:

Output voltage	:	0...±10V
Offset	:	adjustable via potentiometer „0“±1,2V
Amplification	:	adjustable via potentiometer „V“0...100% of the input value

Accuracy:

Linearity error	:	< 0, 01%
Temperature coefficient	:	< 0, 02% / K
Transfer frequency	:	≤ 1 kHz at -3dB

General data:

Operating temperature	:	0...50°C
Storage temperature	:	-25...+85°C, condensation before putting into operation is not allowed
MTBF	:	65 years Mean Time Between Failures – according to EN 61709 (SN 29500). Requirements: Stationary operation in clean rooms, average ambient temperature 40 ° C, no forced ventilation, continuous operation
CE conformity	:	EN 61326-1, EN 61000-4-2/3*/4/5/6*, EN 61000-6-4 * during measurements small deviations are possible

Body:

Dimension	:	22,5mm adjoin body, 22,5x114,5x104,5mm (with terminals)
Material	:	PA / V0
Protection category	:	IP20
Fixing	:	M3-screw-type terminal 0, 14 - 2,5mm ² , flexible or inflexible
Fixing	:	Snap-on mounting for norm rail TS35
Weight	:	100g

Note on safety:



Disconnect the power supply before attempting to open the unit.

During the operation of this module it is possible that parts of the module, even there is extra-low voltage, (for example shunt measurement) are under dangerous voltage! Therefore a non-observance of this caution may cause damage of property or physical injury.

Only trained qualified personnel should install or operate the unit. Before installation the qualified personnel should read the documentation and should familiarize themselves with the unit.

If there is visible damage to the body of the unit it should be immediately replaced and not put into operation.



Please ensure that there is a sufficient prevention against electrostatic discharge during installation of the unit.

Installation Information:

Pay attention and make sure the unit is far away from mounted sources that may disturb the device such as magnetic coils, transformers, frequency converters etc.

Wiring advise:

Use only shielded cables. The shield is to be connected extensively to earth. Do not mix power- and signal-wires/cables in the same cable tray.

Limited guarantee:

The LEG Industrie-Elektronik GmbH warranted that the product does not have any material or processing defects in a period of 5 years after date of delivery.

It is up to the choice of LEG to repair or to exchange an inoperative unit.

Subsequent damages or any claim for indemnification above the functionality of the unit are excluded.

This limited warranty is only valid if ...

1. the product was installed and put into operation according to the LEG operation documentation;
2. the technical configuration of the power supply was abided;
3. the product was not used for unintended purposes;
4. there were no unauthorized modifications or manipulations, misuse or repairs without previous agreement from LEG .

Our Terms of Trade are based on the "General Conditions for the supply of products and services of the Electrical and Electronics Industry" including the "Complementary Clause: Extended Reservation of Property" of the ZVEI e.V. (German Association of Electrical Manufacturers).

Miscellaneous:

We expressly reserve the right, without previous notice, to correct errors contained in any data of this information brochure, and to make alterations to the program and technical modifications.