

### Technical Data:

Output voltages:	6 V-, stabilized, max. 7 A- 7 V~, max. 9 A
Overload protection:	Both output receptacles are protected against short circuits and overloading. In the case of an overload the transformer switches off automatically in both voltage ranges (electronic circuit breaker) and can be used again after a short time. In such a case, turn the power switch off and on again.
Fuses:	Primary: melting-wire fuse T630mA in fuse socket Secondary: electronic circuit breaker
Power source:	230 V~ / 50 ... 60 Hz
Dimensions:	approx. 160 x 120 x 45 mm
Case:	Plastic, ABS
Weight:	approx. 1260 g

Do not drop the instrument. Should this occur, have the instrument checked and, if necessary, repaired by authorized service personnel.

In the event that unexpected problems arise during installation or use, turn the instrument off and contact an authorized dealer.

Do not expose the instrument to water drops or spray.

Use only fuses of the type and nominal amperage indicated.

This instrument contains no parts that need to be serviced by the user.

This device is only to be operated by qualified persons and by others duly instructed by such persons.

FRUHMANN GmbH - NTL-Export 7372 Karl, Austria 

**NTL**  
**innoSYSTEM**

## Box-fixed voltage transformer, magnetic P3120-1N

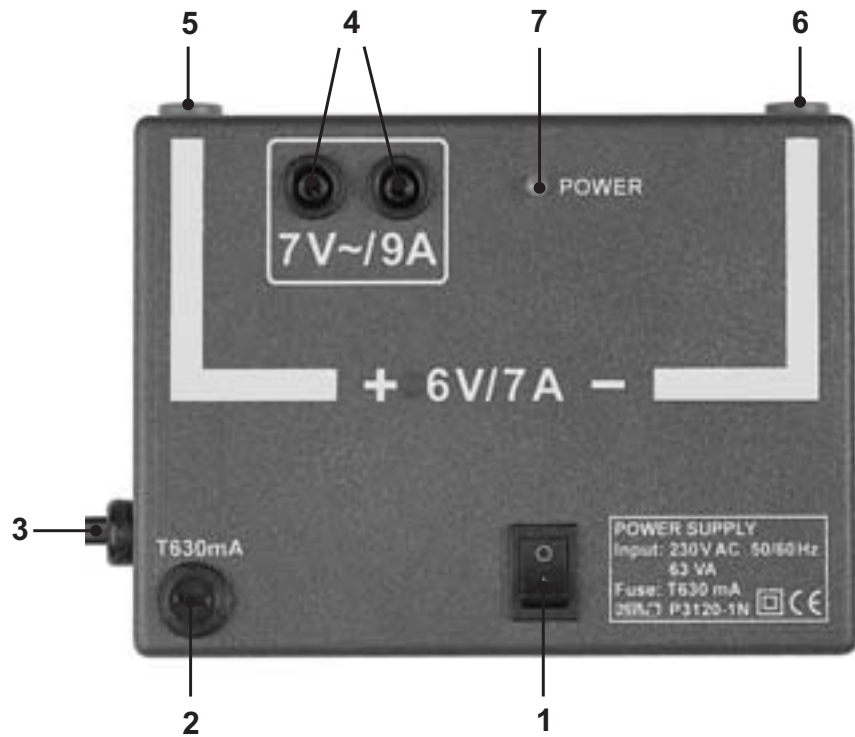
The box-fixed voltage transformer provides continuous, stabilized DC voltage of 6 V at max. 7 A or continuous AC voltage of 7 V at max. 9 A. The fixed voltage transformer has been developed to be used especially with the following devices:

Box-AC converter P3120-1W, box-DC converter P3120-1K, box-function generator P3120-1G and box-3-phase converter P3120-3D.

The fixed voltage transformer is held magnetically and is therefore especially suitable for all experiments carried out on the magnetic assembly panel within the **NTL-innoSYSTEM**.

The two output voltage levels may only be tapped by means of the 4 mm safety receptacles. Both output terminals are protected against short circuits and overloading!





- 1 Power switch
- 2 Fuse socket for melting-wire fuse T630mA, primary fuse
- 3 2-pole power cord, fixed to the case
- 4 4 mm safety receptacle, black, AC voltage 7 V~, max. 9 A~
- 5 4 mm safety receptacle, red (positive terminal), DC voltage 6 V-, max. 7 A-
- 6 4 mm safety receptacle, blue (negative terminal), DC voltage 6 V-, max. 7 A-
- 7 LED power supply lamp, green
- 10 magnets on the reverse side

### Operation:

The box-fixed voltage transformer is connected by means of the power cord fixed to the case (3) and a receptacle outlet to the AC mains 230 V~. When the power switch (1) is turned to the "ON" position, the LED pilot lamp indicating power (7) glows green. The required voltage, AC or DC, can be tapped from the respective 4 mm safety receptacles (4) or (5, 6). The built-in electronic circuit break automatically cuts the power when overloading in either of the voltage ranges occurs. In this case, turn the power switch (1) into the "OFF" position, disconnect the DC or AC consumer from the 4 mm safety receptacle and pull the transformer's power cord. The electronic circuit breaker cools down, allowing the device to be used again shortly! Should the melting-wire fuse T630mA (primary fuse) become defective, the fixed voltage transformer must be disconnected from the AC mains. Then remove the cap from the fuse socket (2) and replace the defective melting-wire fuse with a comparable fuse of the same type and the nominal amperage indicated.

### Ways of using the box-fixed voltage transformer P3120-1N:



The box-fixed voltage transformer, magnetic, P3120-1N can be equipped with converters for use with the assembly panel P3120-4A, allowing it to be converted into a "table model" in an instant. The front panel has designed simply, enabling it to be used even by novices in experimenting

#### Example:

Box-DC converter P3120-1K, magnetic, mounted on box-fixed voltage transformer, magnetic, on assembly panel P3120-4A .

#### Further combinations with the box-fixed voltage transformer P3120-1N:

- Box-AC converter P3120-1W
- Box-3-phase converter P3120-3D
- Box-function generator P3120-1G

