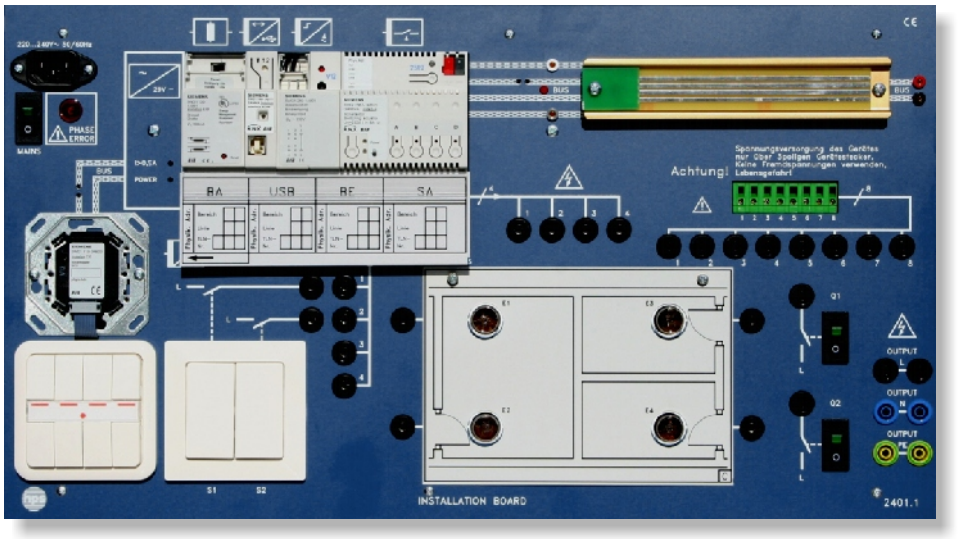
Installation Board

2401.1



INSTALLATION BOARD (Type 2401.1)

- **Compact training unit for the field of „European Installation Bus“ (EIB)**
- **The unit contains all the important basic components, single-phase mains outlet sufficient**
- **Additional EIB components from different manufacturers can be plugged to an integrated tophat mounting rail and adapted to safety jacks (4 mm)**
- **With integrated bus detector displaying the bus activity**
- **Integration of conventional installation technology possible**
- **PC-programmable through the integrated USB interface**
- **Can be used as a desktop unit, in a demonstration rack or as a mobile training unit in a Box**

With the INSTALLATION BOARD, hps SystemTechnik offers a training unit which has been designed for conducting experiments in the field of „European Installation Bus“ KNX (EIB).
The unit contains all the important basic components necessary for setting up experiments in connection with the European Installation Bus.

There is a tophat mounting rail on the front of the Board for mounting additional KNX components from different manufacturers to extend the range of experiments.

Templates with printed ground plans are placed on the front of the INSTALLATION BOARD for defining problems.

The INSTALLATION BOARD contains the following function groups:

- Power supply unit, 29 V / 500 mA, for supplying power to the EIB components through the bus
- Choke
- Data interface (USB)
- Binary input, 4-fold
- Switching actuator, 4-fold
- Bus coupler
  Modules for other applications can be mounted on the bus coupler in place of the connected sensor.
- Sensor consisting of 4 pairs of keys with programmable LED displays
- Bus detector (LED)
- 2 pushbuttons / 2 switches, with pilot lamp (230 V)
- 4 lamps for simulating loads (230 V AC, 5 W)
- Tophat rail with data bus for integrating additional commercially available EIB components
- Adapter, 8-pole, for adapting normal installation lines to 4 mm safety jacks
- Connection for extensions with safety jacks (4 mm), L / N / PE

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Installation Board

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Installation Technology – KNX European Installation Bus (EIB)

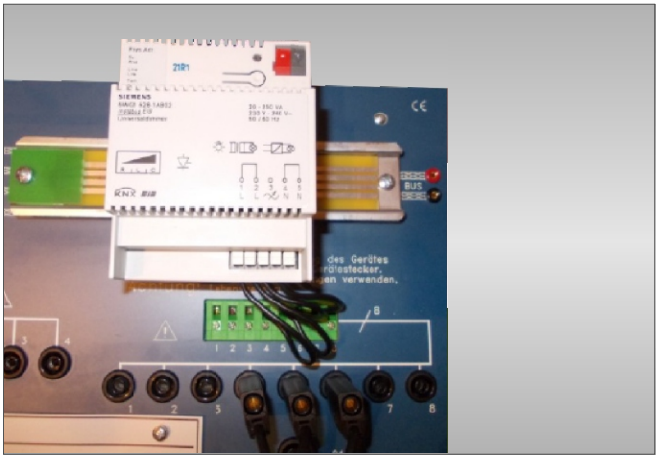

Fig.:
Partial view of the INSTALLATION BOARD

Tophat rail with plugged EIB components

Example of wiring with installation lines and safety leads in connection with the adapter

The inputs and outputs are wired to 4 mm safety jacks and 2 mm jacks.
The bus connection and the 29 V power supply for external equipment are made through 2 mm jacks.

To conduct the experiments, the INSTALLATION BOARD is placed on a table or suspended in an hps rack for demonstration purposes.

The INSTALLATION BOARD can be converted into a portable training unit by simply screwing it into a Box: All the experiments can be conducted directly in the Box.

Dust-free storage and protection against transport damages are further advantages of the Box version.

Accessories Required

- Personal computer,
  CPU: 1 GHz and upwards, working memory: 256 MB RAM, operating system for PC: Windows® Software monitor and graphic card (VGA), mouse, USB interface
- Safety connecting leads (4 mm), plugs (2 mm)
- Connecting Lead USB, 3 m (Type 9102.54)
- Software: ETS4 and product data bank
- Experiment manual:
  Experiments with the European Installation Bus KNX (EIB) with ETS4, Type V 0118-V4

Expansion Possibilities

- EXTENSION BOARD (Type 2402)
- Demonstration Boards for „European Installation Bus“

Technical Data

Mains connection

- Voltage: 230 V AC; 50 ... 60 Hz; 50 VA

Power supply (built-in)

- 29 V DC; 500 mA (short-circuit-proof, with operating and overload display by LEDs)
  The power supply feeds all EIB components.
  The 29 V can be tapped additionally at 2 mm jacks or tophat rail contacts, e. g. for connecting another choke.

Mechanical data

The front panel of the INSTALLATION BOARD is made of 5 mm thick laminate, matt blue in colour with white engraving representing the built-in function groups.
The individual EIB components are integrated in the front panel.
The rear of the Board is protected with a grey plastic cover.
Its shape allows the Board to be placed at an ergonomically favourable angle for example on a table.

Accessories included

- Templates with printed ground plans
- Tagboard with label strips for documentation of the parame - ters dedicated to the EIB components

Dimensions and weights

- Board version (Type 2401.1): 532 x 297 x 120 mm (w x h x d) weight: approx. 3.75 kg
- Box version, consisting of:
  INSTALLATION BOARD (Type 2401.1) and
  Box (Type 2401.20): 580 x 450 x 155 mm
  total weight: approx. 6.55 kg

Subject to technical modifications.