



Programmable digital display HSB4824D
3½ digit display for DC with 1 limit contact
48mm x 24mm

Application

Display of analog measurement DC, which is with software adjustable.
Input Signals possible from 1A DC to +1A DC or 100V DC to +100V DC.

Description

The **3½ digit programmable display instrument HSB4824D** offers full electronic measuring and display capabilities insuring greater precision over existing electro-mechanical devices. This allows most all display values to be quickly and reliably represented. The alignment parameters are stored in a non-volatile EEPROM memory. Due to the improved technology the long-term drift is reduced to a minimum. In addition, unwanted readjustment of the device settings through external mechanical influences, such as vibration or by hand, are prevented. The device parameters and calibration are factory set according to customer demands. We also offer a computer interface and software for those customers who, at any time, wish to readjust and recalibrate the device to their own needs. The red LED display, with 10mm high digits is clearly readable even from a distance. A supply voltage of 24V DC is required to power the device. **The auxiliary voltage is isolated from the measuring circuit using an internal switching power supply.** The supply voltage can also be the measuring voltage, which means that an isolation of the voltages is not necessary. The device can be used for only one voltage supply.

Function

The positive, negative and bipolar display ranges, the display value of the input signal 0, the gain factor and the limit contact for the operate/release point are programmed by HSB. Please supply us with the above information when ordering. If you have the HSB interface and software (Part No. 027010) you can programm and calibrate the device as needed.

Options

Other supply voltages available upon request.

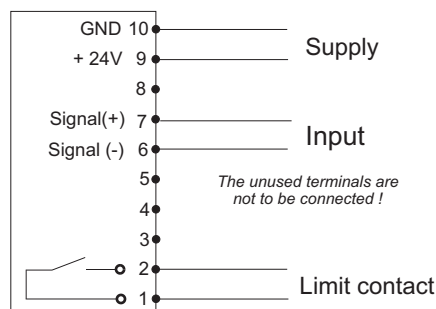
Part number

Part number	Input Signal
014010	+/- 20mA DC
014017	+/- 100mA DC
014018	+/- 500mA DC
014019	+/- 1A DC
014012	+/- 10V DC
014014	+/- 50V DC
014015	+/- 100V DC

Approvals



Connection diagram



Mounting

The 3½ digital display of the HSB4824D instrument is built into a panel mounted housing according to DIN 43100.

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Technical data

Supply

Supply voltage: 24V DC 10%
 Power consumption: approx. 50mA
 Operating mode: continuous
 Insulation Voltage: 1kV

Measuring range

Measuring accuracy: 0.5% over the total temperature and voltage range
 Internal resolution: 12Bit (2048)
 Measuring rate: 2.5 measurements / s

Contact

Number of limit contacts: 1
 Contact material: AgCdO
 Maximum switching voltage: 250V AC
 Maximum switching current: 2A
 Mechanical life: 30 Mio.

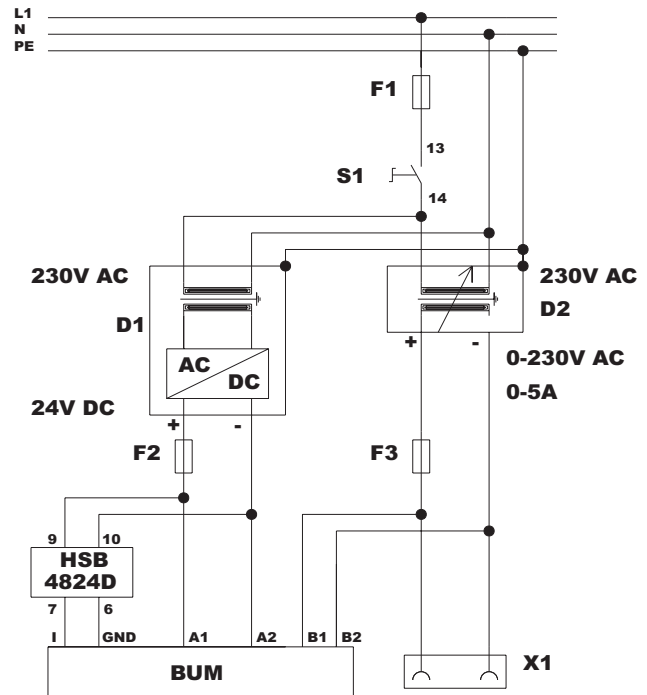
Operation indicators

Display: 7 segment
 LED display, red
 Display range: 4 positions
 -1999...9999
 Digit size: 10mm
 Polarity display: automatic for „ +/- „
 Over flow display: none

General data

Ambient temperature: 0 ... + 60°C
 Climate resistance: VDE 0435T.2021
 Mounting position: any
 Vibration resistance: VDE 0435T.2021
 Test voltage: 0.5kV
 Isolation group: VDE 0110 Group C 250
 Protection class: Connector IP 10
 Housing IP 30
 Connection cross section: Multi-strand wire with wire sleeves 1 x 1mm²
 single wire 1 x 1mm²
 Finger touch proof: VDE 0106T.100 and VBG4
 Switchboard cut-out: 44mm x 21mm
 Mounting depth: 77mm
 Dimensions l x w x h: 48mm x 82mm x 24mm
 Weight: 59g

Example



The HSB4824D digital display device indicates voltage value in conjunction with a SUM voltage transducer.

Dimensions

