The weather station WS/S 4.1 is used for recording weather data. Four conventional sensors can be connected to the WS/S 4.1. The connection to the bus is established via the bus connection terminal at the front of the device. The device is ready for operation after connecting the mains voltage of 115...230 V AC and the bus voltage. The weather station WS/S 4.1 is parameterised via ETS2 V1.3 or higher.

### Technical Data

**Power supply**
- Bus voltage: 21 ... 32 V DC
- Power input, bus: < 10 mA
- Mains voltage Us: 115 ... 230 V AC (+ 10 % – 15 %), 50/60 Hz
- Power consumption: max. 11 W, at 230 V AC
- Power input, mains: 80/40 mA, at 115/230 V AC
- Leakage loss: max. 3 W, at 230 V AC

**Auxiliary voltage output for sensor supply**
- Nominal voltage Un: 24 V DC
- Nominal current In: 300 mA

**Inputs**
- Number: 4 independent sensor inputs
- Input signal/resolution/accuracy: 0 – 1 V Vm/±/– 2 % from upper limit of effect. range
- Input resistance to voltage measurement: > 50 kohm
- Input resistance to current measurement: 260 ohm

**Connections**
- EIB / KNX: Via bus connection terminal, screwless
- Mains voltage: Via screw terminals
- Supply for the sensors: Via screw terminals
- Sensor inputs: Via screw terminals

**Connecting terminals**
- Screw terminals: 0.2 ... 2.5 mm² finely stranded
- Tightening torque: 0.2 ... 4.0 mm² single-core
- max. 0.6 Nm

**Operating and display elements**
- Programming LED: For assignment of the physical address
- Programming button: For assignment of the physical address

**Type of protection**
- IP 20: In accordance with DIN EN 60 529

**Protection class**
- II: In accordance with DIN EN 61 140

**Temperature range**
- Operation: – 5 °C...+ 45 °C
- Storage: – 25 °C...+ 55 °C
- Transport: – 25 °C...+ 70 °C

**Design**
- DIN rail mounted device (MDRC): Modular installation device ProM
- Dimensions: 90 x 72 x 64.5 mm (H x W x D)
- Mounting depth in modules: 4, 4 modules at 18mm
- Mounting depth: 64.5 mm
### Installation
- On 35 mm mounting rail

### Mounting position
- As required

### Weight
- 0.2 kg

### Housing, colour
- Plastic, grey

### Certification
- EIB / KNX in accordance with EN 50 090-1, -2

### CE mark
- In accordance with EMC and low-voltage guidelines

### Application program

<table>
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<th>Number of communication objects</th>
<th>Max. number of group addresses</th>
<th>Max. number of associations</th>
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**Note**

ETS2 V 1.3 or higher is required for programming. When using ETS3, a file of type ".VD3" must be imported. The application program is stored in ETS2/ETS3 under ABB/Input/Weather station, 4-fold.
Fig. 2: Circuit diagram of a PT100 temperature sensor

Fig. 3: Circuit diagram of a floating contact

Fig. 4: Circuit diagram of a 3-conductor sensor with intrinsic supply

Fig. 5: Circuit diagram of a 4-conductor sensor with intrinsic supply

1 Label carrier
2 Programming button
3 Programming LED
4 Bus connection terminal
5 Power supply
6 Auxiliary voltage output to supply the sensors
7 Sensor inputs

Fig. 5: Circuit diagram of a sensor with an external supply

Dimension drawing

[Dimensions shown]
ABB i-bus® EIB / KNX  Weather Station, 4-fold, MDRC
WS/S 4.1, 2CDG 110 032 R0011