ABB i-bus® EIB / KNX

Weather Station, 4-fold, MDRC WS/S 4.1, 2CDG 110 032 R0011



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 Power input, bus Mains voltage Us Power consumption Power input, mains Leakage loss 	21 32 V DC < 10 mA 115 230 V AC (+ 10 % – 15 %), 50/60 Hz max. 11 W, at 230 V AC 80/40 mA, at 115/230 V AC max. 3 W, at 230 V AC		
Auxiliary voltage output for sensor supply	Nominal voltage UnNominal current In	24 V DC 300 mA		
Inputs	 Number Input signal/resolution/accuracy Input resistance to voltage measurement 	4 independent sensor inputs $0-1 \text{ V/1 mV/+/-} 2 \text{ % from upper limit of effect. range}$ $0-5 \text{ V/5 mV/+/-} 2 \text{ % from upper limit of effect. range}$ $0-10 \text{ V/10 mV/+/-} 2 \text{ % from upper limit of effect. range}$ $1-10 \text{ V/10 mV/+/-} 2 \text{ % from upper limit of effect. range}$ $0-20 \text{ mA/20 }\mu\text{A/+/-} 2 \text{ % from upper limit of eff. range}$ $4-20 \text{ mA/20 }\mu\text{A/+/-} 2 \text{ % from upper limit of eff. range}$ $0-1000 \text{ ohm resistance/2.5 ohm/+/-} 2 \text{ %}$ from upper limit of effect. range} PT100 in 2-conductor technology/0.1 K/+/- 1 K} Floating contact interrogation (pulse width min. 100 ms) $> 50 \text{ kohm}$		
	- Input resistance to current measurement	260 ohm		
Connections	EIB / KNXMains voltageSupply for the sensorsSensor inputs	Via bus connection terminal, screwless Via screw terminals Via screw terminals Via screw terminals		
Connecting terminals	Screw terminalsTightening torque	0.2 2.5 mm ² finely stranded 0.2 4.0 mm ² single-core max. 0.6 Nm		
Operating and display elements	Programming LEDProgramming button	For assignment of the physical address 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	OperationStorageTransport	- 5 °C+ 45 °C - 25 °C+ 55 °C - 25 °C+ 70 °C		
Design	DIN rail mounted device (MDRC)DimensionsMounting depth in modulesMounting depth	Modular installation device ProM 90 x 72 x 64.5 mm (H x W x D) 4, 4 modules at 18mm 64.5 mm		

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Installation	 On 35 mm mounting rail 	In accordance with DIN EN 60 715
Mounting position	 As required 	
Weight	– 0.2 kg	
Housing, colour	 Plastic, grey 	
Certification	EIB / KNX in accordance with EN 50 090-1, -2	Certificate
CE mark	 In accordance with EMC and low-voltage guidelines 	

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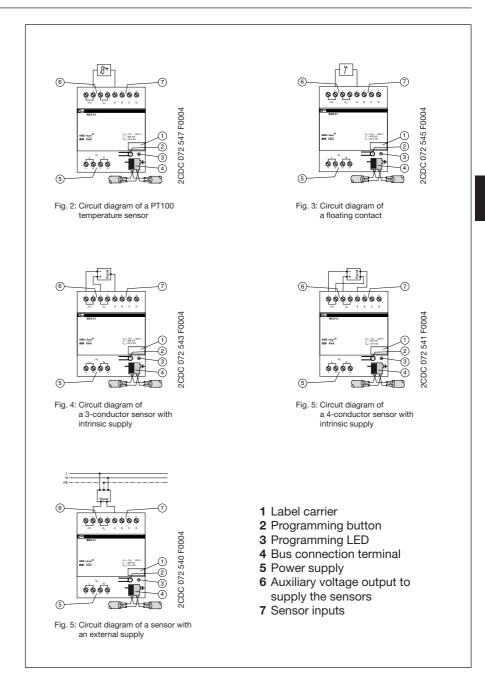
Application program	Number of communication objects	Max. number of group addresses	Max. number of associations
Weather data/1	50	100	100

Note

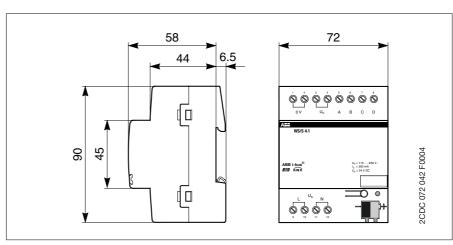
ETS2 V 1.3 or higher is required for programming. When using ETS3, a file of type ".VD3" must be imported. The application program is stored in ETS2/ETS3 under ABB/Input/Weather station, 4-fold.

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Circuit diagrams



Dimension drawing



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