



BACring. The powerful control system
for smoke dampers

Technical Datasheet BACscan

[DUP] BACring - Control system

VERSION 1.14

March 2026

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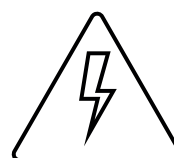


Safety Instructions and Warranty Conditions

WARNING: DANGER TO LIFE!



Before working on the device, it must be disconnected from the power supply (unplug the mains plug). Work on the device may only be carried out by a qualified electrician.

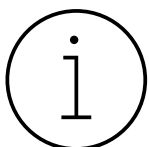


Warranty Conditions



Installation and commissioning must be performed by a qualified electrician! Please read the technical data sheet before installation.

Information



The individual modules are built and tested in accordance with applicable standards and laws and left the factory in perfect condition. To maintain this condition and ensure safe operation, the instructions contained in the user manual must be observed.



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Views





Description

BACscan is a portable, compact diagnostic and commissioning device for BACring modules (DPM). It supports qualified electricians and commissioning engineers during installation, testing, troubleshooting, and ring bus setup of a BACring ring bus system – independent of the DPC-Controller unit and DPB-Buscontroller.

Areas of Application

- Installation of BACring ring bus systems
- Single and dual module testing (DPM)
- Ring bus fault diagnostics
- Bus setup (Build function) up to 50 modules
- Pre-testing without DPC-Controller and DPB-Buscontroller

Functions

Test-Functions

- Checking the ring bus functionality
- Testing of a single DPM module (Port A / Port B)
- Testing of the ring bus connection between two DPM modules
- Display of:
 - Module type
 - Serial number
 - CRC status
- Error detection:
 - No module found
 - Short circuit Port A / Port B
 - Bus voltage status



Functions

Build-Function

- Commissioning of up to 50 DPM modules
- Automatic detection of the physical connection order
- Display per module:
 - Position in the ring
 - Serial number
 - Module type
 - Firmware version
- Detection of typical error states:
 - “No more modules found”
 - Short circuit Port A / Port B
 - Build limit reached

Last-Test-Function

- Display of the last test results of the test function

Info-Function

- Display of a QR code linking to the manufacturer’s website

Operation & Display

- Color touch display
- Side function button for direct triggering of:
 - Test
 - Build start
 - Navigation

Power Supply

- Supply via external power bank
- Connection: USB Type-C
- Supply voltage: 5 V DC
- Power consumption: max. 7.0 W
- Automatic power-on when voltage is applied



Ring bus Interface

- Connection for DPM fieldbus modules via bus pins (included)
- Port A and B compatible
- Cable bridge for connection to cabinet modules (included)

Technical Notes

- Operation only with the ring bus de-energized
- DPB-Buscontroller must not be in operation
- No external voltage permitted on the ring bus
- Failure to comply may result in damage to:
 - BACscan
 - DPB-Buscontroller
 - DPM modules



Technical Data

Power supply	5 V DC via USB-C connection Power consumption max. 7.0 W
Display	2.4" TFT-LCD with resistive touchscreen
Resolution	240 x 320 pixels
Ring bus interface	Phoenix basic terminal block MSTBA 2.5/3-G-5.08 for connecting various adapters
Maximum number of modules, build function as stub line	50 DPM modules
Standards	DIN EN 61010-1 DIN EN 61326-1 DIN EN 55011
Environmental conditions	Operation: 0 °C to +50 °C; Storage: -20 °C to +60 °C; 10% to 90% RH at 40 °C, non-condensing
Protection Class	IP20
Dimensions (W × H × D)	119.3 x 64.9 x 26.5 mm
Housing	Plastic enclosure Bopla BS400
Weight	Approx. 1.3 kg



Connection Diagram

