



ISOSCAN® EDS551

Insulation fault locator with integrated measuring current transformers



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1 General information

1.1 How to use the manual



ADVICE

This manual is intended for qualified personnel working in electrical engineering and electronics! Part of the device documentation in addition to this manual is the enclosed supplement "Safety instructions for Bender products".



ADVICE

Read the operating manual before mounting, connecting and commissioning the device. Keep the manual within easy reach for future reference.

1.2 Indication of important instructions and information



DANGER

Indicates a high risk of danger that will result in death or serious injury if not avoided.



WARNING

Indicates a medium risk of danger that can lead to death or serious injury if not avoided.



CAUTION

Indicates a low-level risk that can result in minor or moderate injury or damage to property if not avoided.



ADVICE

Indicates important facts that do not result in immediate injuries. They can lead to malfunctions if the device is handled incorrectly.



Information can help to optimise the use of the product.

1.3 Service and Support

Information and contact details about customer service, repair service or field service for Bender devices are available on the following website: <https://www.bender.de/en/service-support>.

1.4 Training courses and seminars

Regular face-to-face or online seminars for customers and other interested parties:

<https://www.bender.de/en/know-how/seminars>

1.5 Delivery conditions

The conditions of sale and delivery set out by Bender GmbH & Co. KG apply. These can be obtained in printed or electronic format.

1.6 Inspection, transport and storage

Check the shipping and device packaging for transport damage and scope of delivery. In the event of complaints, the company must be notified immediately. Please use the contact form at the following address: <https://www.bender.de/en/service-support/take-back-of-old-devices/>.

When storing the devices, observe the information under Environment / EMC in the technical data.

1.7 Warranty and liability

Warranty and liability claims for personal injury and property damage are excluded in the case of:

- improper use of the device
- incorrect mounting, commissioning, operation and maintenance of the device
- Failure to observe the instructions in this operating manual regarding transport, commissioning, operation and maintenance of the device
- unauthorised changes to the device made by parties other than the manufacturer
- non-observance of technical data
- Repairs carried out incorrectly
- the use of accessories or spare parts that are not provided, approved or recommended by the manufacturer
- Catastrophes caused by external influences and force majeure
- Mounting and installation with device combinations not approved or recommended by the manufacturer

This operating manual and the enclosed safety instructions must be observed by all persons working with the device. Furthermore, the rules and regulations that apply for accident prevention at the place of use must be observed.

1.8 Disposal of Bender devices



Electrical and electronic equipment must not be disposed of with unsorted household waste but must be collected separately from household waste.

The symbol of a crossed-out wheeled bin indicates the requirement for separate collection.

Before returning a used device, used batteries and accumulators that are not enclosed within the device, as well as lamps that can be removed without damage, must be separated from the device and disposed of separately.

Please observe the applicable national regulations regarding the disposal of waste electrical and electronic equipment.

Waste electrical and electronic equipment may contain personal data. The end user is responsible for deleting this data prior to disposal.

Bender GmbH & Co. KG is registered in the Waste Electrical and Electronic Equipment Register (EAR) under WEEE number DE 43 124 402. To fulfill its legal take-back and disposal obligations, Bender has established appropriate return and disposal options. Information on available collection points and the process for returning waste electrical and electronic equipment can be found at: <https://www.bender.de/en/service-support/take-back-of-old-devices/>

1.9 **Safety**

If the device is used outside the Federal Republic of Germany, the applicable local standards and regulations must be complied with. In Europe, the European standard EN 50110 applies.



DANGER

Risk of fatal injury due to electric shock!

Touching live parts of the system carries the risk of:

- *Electrocution due to electric shock*
- *Damage to the electrical installation*
- *Destruction of the device*

Before installing the device and before working on its connections, make sure that the installation is de-energised.

Observe the rules for working on electrical systems.

1.10 **Cybersecurity**

- Information on BENDER's CRA conformity: <https://www.bender.de/en/cert>
- To report cybersecurity vulnerabilities, contact: psirt@bender.de

Cybersecurity measures for operation

RS-485 interface	Communication via the RS-485 interface is not encrypted. • Protect the bus as much as possible from unauthorised access (e.g., through physical shielding or access control). • Please note the instructions for activating write protection in the Commissioning chapter.
NFC interface	With physical access to the device, parameters can be read and written using the Bender Connect app. A glass pane does not provide protection against unauthorised access. • Prevent physical access, for example by means of access control.
System access	Allow access to COMTRAXX® devices, SCADA systems and comparable systems only to authorised persons.

2 Product description

2.1 Intended use

The ISOSCAN® EDS551 is designed to localise insulation faults in areas used for medical purposes. It is suitable for use in AC and AC/DC systems.

The ISOMETER® isoMED527 or LIM7 is required for insulation fault location.

The device is intended for applications with low mechanical stress.

Observe the limits of the application range in the technical data.

Do not make any unauthorised changes to the device. Only use spare parts and optional accessories sold or recommended by the manufacturer.

Intended use also includes

- the observation of all information in the manual and
- compliance with the test intervals in accordance with the relevant standards and operating rules.



The messages of the device must be perceptible even if it is installed in a control cabinet.

Any other use than that described in this manual is regarded as improper.

2.2 Brief description

Function

In combination with the ISOMETER® isoMED527 or LIM7, the ISOSCAN® EDS551 locates insulation faults in unearthed power supplies (IT systems). To achieve this, it records the measurement signals generated by the ISOMETER® with its integrated measuring current transformers and analyses them.

Measuring channels

The EDS551 is available with four or six active measuring channels. All current-carrying cables of an outgoing circuit can be routed through the active measuring channels. The inactive channels on the EDS551-4 are marked with plugs.

For device variants see "Ordering details", page 23.

Interfaces

Several EDS551 devices can be connected via Bender Smart Connect (BSC) using the RS-485 interface. Alarm messages also appear on connected indicator devices. Activities on the RS-485 interface are indicated by a signal LED.

The device can be configured and read out via the NFC interface using the Bender Connect app.

2.3 Device features

- Insulation fault location in AC and AC/DC IT systems
- 4 or 6 measuring channels with measuring current transformer per EDS551
- Up to 30 measuring channels for each monitored IT system / sub-system: 5×6 measuring channels
- Response time t_{al} (at $R_f \leq 0.5 \times R_{an}$ and $C_e \leq 0.5 \mu F$ according to IEC 61557-9): 3...5 s
- RS-485 interface with BSC protocol
- NFC interface for communication via Bender Connect App
- BSC address range 1...247

- Cyclical self test
- Measurement of insulation resistance, leakage capacitance and impedance per measuring channel
- Individually adjustable response value for insulation resistance per measuring channel

2.4 Function

Insulation monitoring

The ISOSCAN® EDS551 continuously monitors the insulation resistance for each measuring channel. This is based on the measurement signal injected into the system by the ISOMETER® isoMED527 or LIM7. Insulation faults are localised without additional test current in the IT system via the permanent connection to an external conductor (L1) and the functional earth conductor (FE).

Indication of insulation faults

If an insulation fault occurs, the device identifies the affected measuring channel within five seconds. The corresponding alarm LED lights up. The pending alarm is output with address and channel details via the BSC interface.

The faulty circuit is shown on either an alarm and test combination or a BSC master with display. Also refer to “Recommended device combinations”, page 23.

If there are several EDS551, they measure simultaneously and independently of each other. An error that is output by channel 1, for example, is clearly assigned to one of the monitoring EDS551 by its BSC address.

An alarm message disappears when the EDS551 no longer detects an insulation fault on the monitored channel.



Effect of disturbances in the monitored system

If disturbances occur in the monitored system or on the BSC bus, faults that have already been identified may not be measured again during the next measurement. Therefore, an alarm will not be triggered. Usually, a continuing fault will be located again after the next measurement.



Measurement range limitation

At network leakage capacitances $C_e > 1 \mu F$, the measurement range of the insulation resistance measurement may be limited.

Automatic self-test

An automatic self-test continuously checks the function of the measuring device. If a device error occurs, the status LED lights up red.

Indication of measurement value quality

The measurement value quality describes the stability and reliability of the measurement value generation for each measurement channel. It is specified as a percentage and is used to assess the current measurement conditions.

100 %	Stable measurement conditions (continuously valid measurement values)
75 %	Measurement stability slightly impaired (measurement values predominantly valid)
50 %	Measurement stability significantly impaired (measurement values only sporadically valid)
25 %	Measurement stability severely impaired (measurement values hardly usable)
0 %	Measurement disturbed (no valid measurement values available over an extended period)

Fault Memory

The fault memory can store transient faults.

- **Enabled:** The alarm message remains active after the fault condition has cleared, until a reset is executed via an interface.
- **Disabled:** The alarm message clears after the fault condition has cleared.

Device Identification

Purpose: The device identification function enables the visual assignment of an EDS551 within an installation.

Starting the identification: Select the following menu item via the relevant interface:

Control > Identify device [Execute]

Process: The addressed device displays an LED running light for up to five minutes. The process cannot be cancelled.

Device behaviour in identification mode: The EDS551 remains fully operational. All information is still available via the BSC interface. The indication of fault conditions via the LEDs is suppressed.

2.5 Function Modules

What are function modules, and how can I obtain them?

Function modules extend the EDS551's functions.

They can be added later via the Bender Connect app or COMTRAXX®.

Alternatively, the device can be ordered with the extended functions, see "Ordering details", page 23.

Functions of the basic device

Range of functions without function modules:

- Localisation of insulation faults (response value: 50 kΩ per measuring channel, not configurable)

Function Module A: Extended measurements

Function Module A additionally enables the following for each measuring channel:

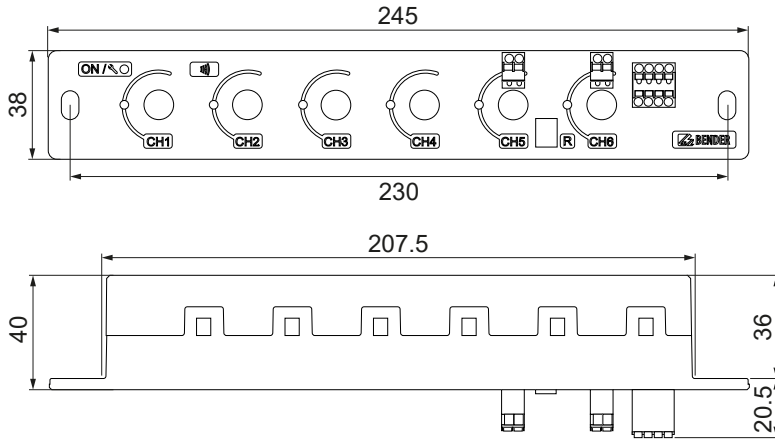
- Measurement of the insulation resistance with a configurable response value (50...200 kΩ)
- Measurement of the leakage capacitance
- Impedance measurement

Function Module B: Activation of two additional measuring channels

EDS551-4 devices can be upgraded to six active measuring channels as required.

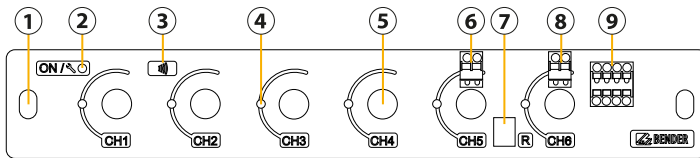
Removing the channel plugs: Insert a screwdriver into the hole from the front and tilt it.

2.6 Dimension diagram



dimensions in mm

2.7 Display, operating controls and connections



- 1 Opening for screw mounting
- 2 Status LED (RGB)
- 3 NFC antenna for connection with Bender Connect app
- 4 Alarm LEDs for the measuring channels CH1...CH6 (yellow)
- 5 CT openings for passing through the electrical wires for the measuring channels CH1...CH6
- 6 L1: Connection to an external conductor of the IT network
L1': Connection for loop-through to L1 of another EDS551
- 7 DIP switch for bus line terminating resistor (status can be queried via the interface paramter "Bus termination")
- 8 FE: Connection to functional earth
FE': Connection for loop-through to FE of another EDS551
- 9 A, B: Connection for RS-485 interface
A', B': Connection for loop-through to A, B of another EDS551
+, -: Connection for power supply
+', -': Connection for loop-through to +, - of another EDS551

LED functions

LED	Lights permanently	Flashes	Off
ON	Green: normal operation Red: device error	Green: bus activity Violet: device in bootloader, e.g. FW update Blue: NFC interface active	No supply voltage
CH1...CH6	Insulation fault	Measurement disrupted	No alarm

2.8 Interfaces

2.8.1 NFC (Near Field Communication)



The NFC interface can be used to transmit a previously configured device parameter setting directly to the device.



This function is available only via the Bender Connect App, which is available for [iOS](#) and [Android](#).



In the Bender Connect App, the device must first be registered. The device-specific setting options are then displayed and can be configured. During data transmission, feedback is provided indicating whether the parameter configuration was successful.



Parameter settings can be transmitted to the device via the Bender Connect App by holding the smartphone close to the device:

- When the device is **unpowered**, parameter settings can be transmitted and are automatically activated once the device is connected to the power supply.
- When the device is **powered**, parameter configuration requires that the NFC interface is activated on the device beforehand.



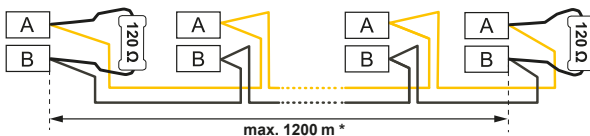
2.8.2 RS-485 interface

Description

The RS-485 interface is galvanically isolated from the device electronics. It serves as a transmission medium for various protocols. It can be used to connect compatible devices to an RS-485 network. The specifications for the RS-485 interface are included in the technical data.

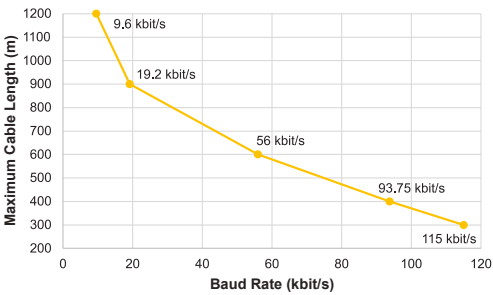
Connection

Use daisy chain structure

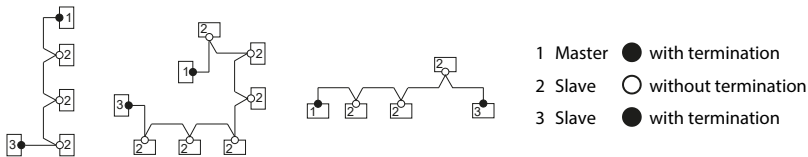


* The length of the bus cable depends on the number of devices, the transmission protocol, the cables used, and interference affecting the system. The following table provides guide values.

Cable length depending on the baud rate (empirical values)



Examples of RS-485 line structures



ADVICE

For a stable RS-485 network, please note:

- Schedule the first and last devices in the line.
- Assign each device address uniquely.
- Please refer to the technical data for information on the RS-485 interface.

3 Commissioning

3.1 Mounting, connection and commissioning

Notice



DANGER

Risk of fatal injury due to electric shock!

Touching live parts of the system carries the risk of:

- *Electrocution due to electric shock*
- *Damage to the electrical installation*
- *Destruction of the device*

Before installing the device and before working on its connections, make sure that the installation is de-energised.

Observe the rules for working on electrical systems.



CAUTION

Cut injuries from sharp edged terminals

- *Handle terminals carefully.*



For UL applications

- *Use 60/75 °C copper lines only.*
- *Max. surrounding air temperature = 55 °C*

- Make sure to route all live conductors of a circuit through the measuring current transformer. The conductor pairs can be passed through the CT's front or rear side.
- Do **not** route a PE conductor through the CT.
- Do **not** route shielded cables through the CT.
- Adjacent magnetic stray fields may affect the CT's sensitivity. Therefore, avoid installing the device near transformers and chokes.
- Recommendation: Configure a device failure address in COMTRAXX® for each connected EDS551 in order to be notified of device failure.

How to replace an EDS151 with an EDS551

ATTENTION

The plug connections of the EDS151 and EDS551 are not compatible!

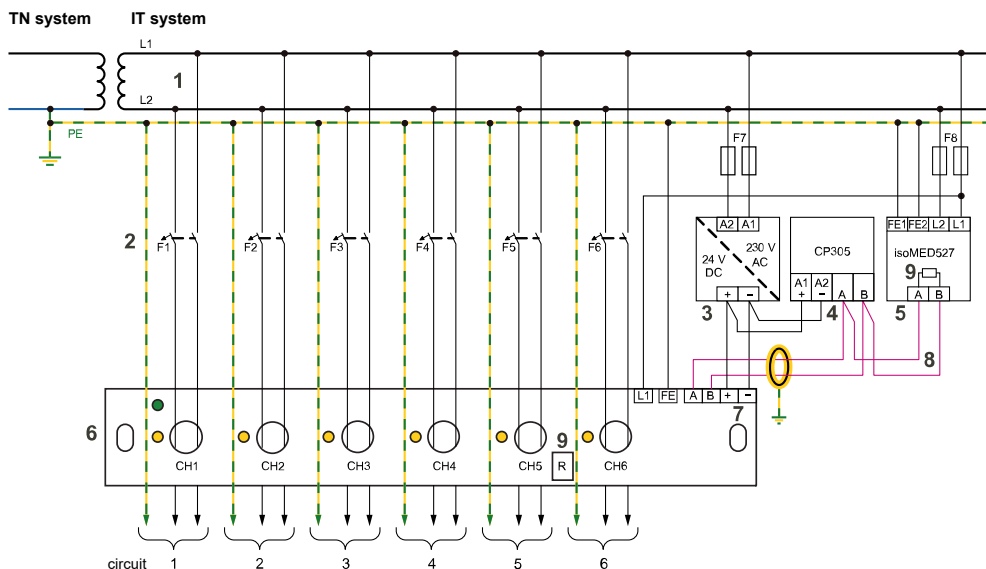
Direct reconnection can cause damage to the device, as the pin assignment (power supply and bus lines) is reversed.

- *Before connecting, rewire the power supply and bus lines in accordance with the technical documentation for the EDS551.*

Mounting, connection and commissioning

1. Check that the factory-set address is not assigned to another bus device (e.g. when installing several EDS551). If required, set an address that is not assigned yet. Avoid address gaps.
 - EDS551 menu: Settings > Interface > BSC > Address
2. Mount the device using two M6 screws, e.g., on a perforated rail.
Tightening torque: 1.5 Nm
3. Connect the device according to the wiring diagram.
4. **IMPORTANT:** The device does not provide connection monitoring for L1 and FE!
Check that the connection is correct.
5. Switch on the device and set the required parameters.
6. Perform a functional test with a genuine insulation fault, e.g. using a suitable resistor.
7. Activate the write protection of the RS-485 interface via COMTRAXX®, CP305 or the Bender Connect app.
 - **NOTE:** The write protection prevents unauthorised changes to device settings via the RS-485 interface.

3.2 Wiring diagram



1	Transformer for IT system to be monitored	6	Insulation fault locator EDS551
2	Circuit breakers	7	Supply voltage $U_S = \text{DC } 24 \text{ V}$
3	AN410 for DC 24 V supply voltage	8	RS-485 interface
4	CP305 alarm indicator and test combination for signalling alarms (BSC master)	9	DIP switch for RS-485 terminating resistor

5	isoMED527 or LIM7 insulation monitoring device		
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3.3 Mounting example

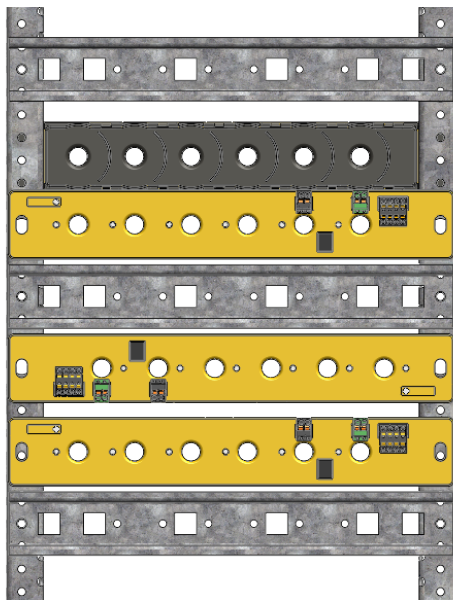


Figure 3-1: Multiple EDS551

4 Settings

How can I configure the device?

Options for configuring the device:

- Via a connected CP305
- Via COMTRAXX®
- Via the Bender Connect App

How do I activate the NFC interface?

The following options are available for activating the NFC interface:

- Start the device by switching on the supply voltage.
 - The NFC interface is active after the device has started. If no communication is detected within five minutes, the NFC interface is automatically deactivated.
- Activate the NFC interface via the master device.

How do I disable write protection?

1. Disconnect the device from the power supply.
2. Disable write protection via the Bender Connect app.
3. Restore the supply voltage.
 - The device can now be parametrised again.

5 Menu structure

To open the menü, select the EDS551 device via NFC or BSC and then select the menu button.

Settings	
	Measuring point • Memory • Nominal frequency • Response values 1 • [...] • Response values 6
	Interface
	Bender Smart Connect • Address • Baud rate • Parity • Stopbits
	NFC
	UPDATE • Update via interface
	System
	Factory setting • Factory setting without interface [restore] • Factory setting with interface [restore]
Control • TEST [Execute] • RESET [Execute] • Identify device [Execute]	
Info • Manufacturer • Device • Application software • Boot loader • Bender Smart Connect	
Licenses • Warnings and faults – Acknowledgement of the "Temporary license expires" alarm with information on which function modules are deactivated in each case • Overview • Function modules	
Edit texts	
	Device • Device name • Device failure
	Data meas. values • Channel 1 • [...] • Channel 6

6 Technical data

6.1 Factory setting

Monitored system	
Rated frequency	50 Hz
Response values / Alarms	
Response value R_{an} (CH1...CH6)	50 kΩ
Fault memory	off
RS-485 interface	
Address	100 + last two digits of the serial number
Protocol	Bender Smart Connect (BSC)
Baud rate	19.2 kBd
Parity	even
Stop bits	auto
Termination (DIP switch)	off
Access restriction	
Write protection	off
Update via interface	off

6.2 Tabular Data

Insulation coordination

General

Overvoltage category	IEC 61010-1 / 61010-2-30: CAT III Mains circuit: CAT II UL 508 / UL 840: OVC III
Pollution degree outside ($U_n < 300$ V)	2

Definitions and rated voltage

Connection circuit definition	Function	Terminal	Rated voltage	Applicable standard
IC1	Measuring circuit 1	L1	300 V	IEC 61010-1
IC2	Measuring circuit 2	CH1...CH6	300 V	IEC 61010-2-030 UL 840
IC3	Supply circuit	+, –	50 V	IEC 61010-1; UL 508
IC4	Control circuit 1	A, B	50 V	IEC 61010-1
IC5	Control circuit 2	FE (= GND)	50 V	IEC 61010-2-030 UL 840

Rated impulse voltage (5 s)

Source/destination circuit	Basic insulation		Reinforced insulation	
	DC	AC	DC	AC
IC1 / (IC2-5)	4 kV	2.210 kV	6.4 kV	3.510 kV
IC2 / (IC3-5)	4 kV	2.210 kV	6.4 kV	3.510 kV
IC3 / (IC4-5)	1.9 kV	1.35 kV	-	-
IC4 / IC5	1.216 kV	0.86 kV	-	-

Long-term stress (1 min)

Source/destination circuit	Basic insulation		Reinforced insulation	
	DC	AC	DC	AC
IC1 / (IC2-5)	2.1 kV	1.5 kV	4.2 kV	3.0 kV
IC2 / (IC3-5)	2.1 kV	1.5 kV	4.2 kV	3.0 kV
IC3 / (IC4-5)	1.9 kV	1.35 kV	-	-
IC4 / IC5	1.216 kV	0.86 kV	-	-

Rated insulation voltage

IC1/(IC2-5)	OVC III	300 V
IC2/(IC3-5)	OVC III	300 V
IC3/(IC4-5)	OVC II	50 V
IC4/IC5	OVC II	50 V

Protective separation (reinforced insulation) between

IC1 / (IC2-5)	CAT III	300 V
IC2 / (IC3-5)	CAT III	300 V

Voltage tests (routine test) according to IEC 61010-1

IC1 / (IC2-5)	AC 2.2 kV
IC2 / (IC3-5)	AC 2.2 kV
IC3 / (IC4-5)	AC 105 V
IC4 / IC5	AC 105 V

Supply voltage

Terminal	X1+, X1.–
Main voltage supply U_s	DC 24 V (–30...+15 %)
Power consumption DC	≤ 1 W

Monitored IT system

Nominal system voltage U_n	AC 24...230 V ($\pm 15\%$)
Frequency f_n of U_n	AC 50...60 Hz ($\pm 15\%$)

Measuring circuit

Permissible system leakage capacitance C_e	$\leq 5\ \mu\text{F}$
--	-----------------------

Number of measuring channels	per device	per system (max. 5 EDS551)
EDS551-6	6	max. 30
EDS551-4	4	max. 20

Insulation resistance R

Response value R_{an}	50...200 k Ω
Step size	5 k Ω
Response uncertainty	$\pm 20\%$, min. 1 k Ω
Hysteresis	20 %
Response time t_{al} (at $R_f \leq 0.5 \times R_{an}$ and $C_e \leq 0.5\ \mu\text{F}$; according to IEC 61557-9)	3...5 s ($\pm 1\text{ s}$)
Rated frequency	42...69 Hz
Measuring range at $C_e \leq 1\ \mu\text{F}$	0...500 k Ω
Measuring uncertainty	$\pm 20\%$, min. 1 k Ω

Impedance Z

Measuring range	0...500 k Ω
Measuring uncertainty	$\pm 20\%$, min. 10 k Ω

Leakage capacitance C

Messbereich	0...5 μF
Measuring uncertainty	$\pm 20\%$, min. 20 nF

Interfaces

RS-485

Connection	A, B
Protocol	Bender Smart Connect (BSC)
Parity	even, no, odd
Stop bits	1 / 2 / auto
Cable	Recommended: CAT 6/7, minimum AWG 23, twisted pairs Alternatively: J-Y(St)Y, minimum 2 × 0.8 mm
Cable length (for 19,2 kbit/s)	≤ 900 m
Termination resistor (internal via DIP switch)	120 Ω (0.25 W)
Device address, Bender Smart Connect	1...247

NFC

Frequency	13.56 MHz
Transmitting power (modulating; in 0 m distance, e.g.) ¹	0 W

- ¹
- Electromagnetic interference may cause NFC failure.
 - The device does not transmit any radio waves when used as intended.

Environment/EMC

EMC standard	IEC 61326-2-4
Ambient temperatures	
Operating temperature	−25...55 °C (−13...131 °F)
Transport	−25...70 °C (−13...158 °F)
Long-term storage	−25...55 °C (−13...131 °F)
Altitude of operation	≤ 3000 m (10,000 ft) AMSL

Climatic classes according to IEC 60721 (temperature and relative humidity)

Fixed installation (IEC 60721-3-3)	3K22
Transport (IEC 60721-2)	2K11
Long-term storage (IEC 60721-3-1)	1K22

Mechanical classification according to IEC 60721

Fixed installation (IEC 60721-3-3)	3M11
Transport (IEC 60721-3-2)	2M4
Long-term storage (IEC 60721-3-1)	1M12

Connection

General

Terminal	X1	FE, L1
Connection type	pluggable push-wire terminal	pluggable push-wire terminal
Nominal current	≤ 8 A	≤ 8 A
Conductor size	AWG 24...16	AWG 26...16
Stripping length	10 mm (0.4")	9 mm (0.35")

Wire Specification

Terminal	X1	FE, L1
solid, stranded	0.2...1.5 mm ² (≈ AWG 24...16)	0.14...1.5 mm ² (≈ AWG 26...16)
stranded with ferrule without plastic sleeve	0.25...1.5 mm ² (≈ AWG 23...16)	0.25...1.5 mm ² (≈ AWG 23...16)
stranded with ferrule and plastic sleeve	0.25...0.75 mm ² (≈ AWG 23...18)	0.25...0.5 mm ² (≈ AWG 23...20)

Other

Operating mode	continuous operation
Position of normal use	any
Enclosure material	CYCOLOY™ CY6414
Screw mounting	2 × M6 (Tightening torque: 1.5 Nm)
Degree of protection, internal components (DIN EN 60529)	IP30
Degree of protection, terminals (DIN EN 60529)	IP20
Flammability class	UL 94 V-0
Software version	D0837 / V1.0.x
Dimensions	245 × 38 × 40 (mm)
Weight	290 g

(*) = factory setting

6.3 Ordering details

Type	Note	Supply voltage	Output voltage	Art. No.
EDS551-4	4 measuring channels	DC 24 V (–30...15 %)	---	B71080451
EDS551-4	4 measuring channels inkl. Function Module A			B71080452
EDS551-6	6 measuring channels			B71080651
EDS551-6	6 measuring channels inkl. Function Module A			B71080652
isoMED527-L-2	Required for the use of EDS551	AC 100...240 V (–30 % / +15 %)	---	B81625521
isoMED527-L-2	Inkl. Function Module A, required for the use of EDS551	AC 100...240 V (–30 % / +15 %)	---	B81625523
LIM7	Required for the use of EDS551 in UI applications	AC 100...240 V (–30 % / +15 %)	---	B81625520
AN410	Supplies up to 6 EDS551	AC 90...264 V (47...63 Hz)* DC 120...370 V*	DC 24 V, 420 mA	B924209
CP305	Remote Alarm Indicator	AC/DC 24 V (AC 50/60 Hz)	---	B95100051
EDS551 Steckerkit	Replacement connector kit	---	---	B71080050

* Absolute values of the voltage range



ADVICE

According to IEC 60364-7-710, only power supply units with protective separation (reinforced insulation) between the primary and secondary voltage may be used to provide the supply voltage. The power supply units specified above fulfil this requirement.

- Only use power supply units according to IEC 60364-7-710

6.4 Recommended device combinations

Device combination	Insulation monitoring device	Insulation fault locator	Alarm indicator and test combination
1	isoMED527-L-2 = S	EDS551 = S	CP305 = M
2	isoMED527-L-2 = S	EDS551 = S	CP9xx = M

S Slave

M Master

6.5 Standards and certifications

Standards

The ISOSCAN® EDS551 conforms to the following standards:

- IEC 61557-9
- EN 61557-9
- DIN EN 61557-9
- IEC 61326-2-4
- UL 508

Marks



Licences

For a list of the open-source software used see our [Website](#).

EU Declaration of Conformity

Hereby, Bender GmbH & Co. KG declares that the device covered by the Radio Directive complies with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following Internet address:

https://www.bender.de/fileadmin/content/Products/CE/CEKO_EDS551.pdf

6.6 Revision History

Date	Document version	Software version	Changes
05.2026	00		Initial release



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account the edition valid until 05.2026
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