# VL2 E Test Adapter for Testing Devices and Cables with Test Instruments per DIN VDE 0701/0702

3-349-241-03
3/8.06

- **Extensive equipment** with single and 3-phase plug connectors up to CEE 32A, and thus suitable for:
  – All tests per DIN VDE without line voltage for single and 3-phase electrical devices
  – Tests per DIN VDE, as well as function tests, for single and 3-phase extension cables
- **Easy operation** for extension cable function test with rotary selector switch
- **Sensible add-on** for all test instruments per DIN VDE such as the METRATESTER®5-3P test case, the SECUTEST®21F test panel and the following test instruments:
  – **MINITEST** | ...,
  – METRATESTER®4 and 5,
  – SECUTEST®...
  or
  – **SECUSTAR** | FM
-

## Applications

The test adapter is intended for the performance of measurements and testing at electrical devices and extension cables with CEE plug connectors in combination with test instruments in accordance with the following standards:
DIN VDE 0701-1:2000 (testing after repair)
DIN VDE 0702 (periodic testing)

The following quantities can be tested with the adapter in combination with test instruments which are intended for performance of the respective tests:

### Electrical Devices

– Protective conductor resistance
– Insulation resistance (measurement of L1, L2, L3 and N, short-circuited to PE)
– Equivalent leakage current

### Extension Cables

– Protective conductor resistance
– Insulation resistance (measurement of L1, L2, L3 and N, short-circuited to PE)
– Easy function test for single and 3-phase extension cables including testing for conductor continuity, short circuiting and polarity reversal (clockwise rotation) with rotary selector switch

## Safe, Efficient Work

When performing tests, the adapter's connector cable is plugged into the test socket at the test instrument. The test instrument's probe cable is additionally plugged into the connector socket at the adapter when testing extension cables.

## Applicable Regulations and Standards

| | |
|---|---|
| **DIN VDE 0104** | Setup and operation of electrical test equipment |
| **IEC 61010-1<br>DIN EN 61 010-1/<br>VDE 0411-1** | Safety requirements for electrical equipment for measurement, control and laboratory use – general requirements |
| **VDI/VDE 3540** | Reliability or measuring and control equipment |
| **DIN VDE 0470, part 1** | Test instruments and test procedures<br>– degrees of protection provided by enclosures (IP code) |

### Regulations and Standards for Use of the Test Instrument

| | |
|---|---|
| **DIN VDE 0701<br>Part 1<br>Part 240** | Repair, modification and testing of electrical devices<br>General requirements<br>Information technology devices |
| **DIN VDE 0702** | Periodic testing of electrical devices |
| **BGV A3 (VBG 4)** | Trade association accident prevention regulations |

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## Connectors

**Test outlets**

CEE 3P+N+PE 32 A 400 V
CEE 3P+N+PE 16 A 400 V
CEE 1P+N+PE 16 A 230 V
Earth contact: 1P+N+PE 16 A 230 V

**Test Plugs**

CEE 3P+N+PE 32 A 400 V
CEE 3P+N+PE 16 A 400 V
CEE 1P+N+PE 16 A 230 V
Earth contact: 1P+N+PE 16 A 230 V
Inlet plug: 1P+N+PE 16 A 230 V

## Electrical Safety

| | |
|---|---|
| Safety class | I |
| Measuring category | 300 V CAT II |
| Fouling factor | 2 |

## Ambient Conditions

| | |
|---|---|
| Storage temperature | – 20 °C ... + 60 °C |
| Operating temperature | – 10 °C ... + 50 °C |
| Accuracy range | 0 °C ... + 50 °C |
| Relative humidity | Max. 75%, no condensation allowed |
| Elevation | Max. 2000 m |
| Deployment | Indoors; outdoors only within the specified ambient conditions |

## Mechanical Design

| | |
|---|---|
| Protection | Housing: IP 40<br>Terminals: IP 20 |

Excerpt from table on the meaning of IP codes

| IP XY (1st digit X) | Protection against foreign object entry | IP XY (2nd digit Y) | Protection against the penetration of water |
|---|---|---|---|
| 2 | ≥ 12.5 mm dia. | 0 | not protected |
| 4 | ≥ 1.0 mm dia. | 0 | not protected |

| | |
|---|---|
| Dimensions | W x H x D: approx. 330 x 230 x 130 mm |
| Weight | approx. 1.7 kg |

## Standard Equipment

1 VL2 E test adapter
1 operating instructions

## Order Information

| Description | Type | Article Number |
|---|---|---|
| Test adapter for extension cables | VL2 E | Z745W |

*For additional information concerning accessories please refer to:*

- *our Measuring Instruments and Testers catalogue*
- *our website www.gossenmetrawatt.com*

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