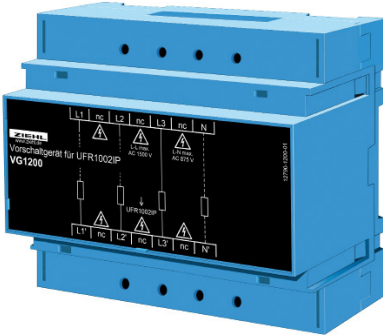


# Coupling Device for Voltage Type VG1200

## Measuring of voltages up to 1.200V with NA-Box UFR1200IP

Available from May 2023

### VG1200



#### Part numbers:

VG1200                    **S222312**UFR1002IP                **S222301**

In order to achieve higher efficiencies and to reduce line losses, inverters with a higher output voltage than the usual 3AC 400 V are often used in large on-site generation systems.

So that the grid and system protection can monitor this high voltage, it must be reduced. This is usually done with voltage converters.

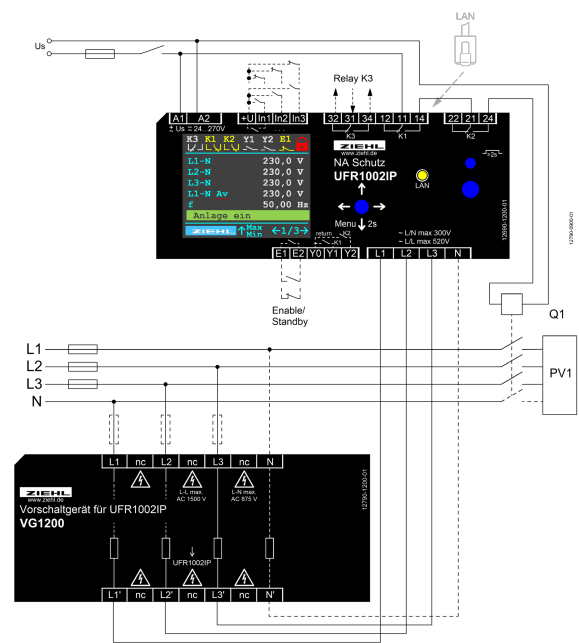
With the VG1200IP coupling device, an ohmic voltage divider is available that takes on this task. In conjunction with the VG1200 coupling device, the UFR1002IP can measure voltages of up to 1200 V. The display in the UFR1002IP is scalable. This means that the voltages at the input of the VG1200 are displayed and the limits for protection against over- and undervoltage are set accordingly.

Both devices together meet the requirements of VDE-AR-N 4110 (feeding into the medium-voltage grid).

- Measuring of voltage up to 1200 V
- Measuring tolerance  $\leq 1,2\%$  of nominal voltage (of UFR1002IP)
- No voltage converters required
- Display of the correct voltage on the UFR1002IP (scalable)
- No supply voltage required
- Housing V6, 105 mm wide

#### Accessory:

[ZIEHL NA-Box UFR1002IP](#)



### Technical Data

#### Measurement

Nominal voltage Un L-N

Nominal voltage Un L-L

Measuring range

Measurement tolerance

UFR1002IP + VG1200

Frequency range

3AC + N

250...690 V

440...1200 V

0...1,25 Un (continuously)

 $\leq 1,2\%$  of nominal voltage (of UFR1002IP)

AC 45...65 Hz

Overvoltage category

Pollution degree

Protection category

Rated impulse voltage

Basic isolation

Reinforced isolation

III

2

II (with UFR1002IP)

10,5 kV

L1, L2, L3, N

Electronics - Housing

Internal resistance Ri

Residual current (single error)

Protection class

Perm. ambient temperature

1,8 MOhm / measuring channel

 $<0,9 \text{ mA} @ 1500 \text{ V}_{L-L}$ 

Housing = IP30 / Terminals = IP20

-20...55 °C

Housing

Dimensions (H x B x T)

Attachment

Design V6

V6: 90x 105 x 58 [mm], Fitting height 55 mm

35 mm standard rail according EN 60 715