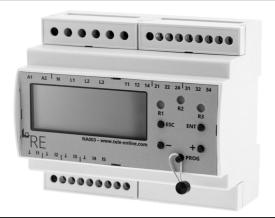
NA003

090 850







Danger! Never carry out work on live parts! Danger of fatal injury! The product must not be used in case of obvious damage! To be installed by an authorized person!

- The complete manual is available at:
- http://www.tele-online.com/resources/data-sheets/en_NA003_Manual.pdf
- This Quick Start Guide does not replace the manual and the owner should read in conjunction with the whole Manual.
- The safety instructions are to be observed

Intended use:

The TELE NA003 is a Grid and System Protection Device for the use with energy producing generation plants like combined heat and power plants, wind power plants, waterpower plants as well as

In case of power failures or net anomalies private power plants have to be disconnected immediately from mains to avoid unintentional feeding to the grid. On the one hand continuing grid feeding could endanger maintenance staffs, on the other hand connected devices could be exposed to inadmissible voltages and/or frequencies.

In case the grid operator requires thresholds that are not conform with the specific standards, it is partially possible to set thresholds outside the normative defined range!

Outside these range the device is not in accordance with the standards anymore and the corresponding certificate loses validity! This state is indicated as "ncfm" on the display.

Settings outside the conformity range are therefore in responsibility of the operator respectively the acceptance authority!

Safety note:

The device was developed, produced and tested in accordance to the latest industry standards. Nevertheless improper handling or use can endanger humans and machines.

Please use the device only in accordance with the installation and operating instructions. Check for secure assembly and good condition. Moreover, the rules and regulations on accident prevention applicable to the place of use must be strictly followed.

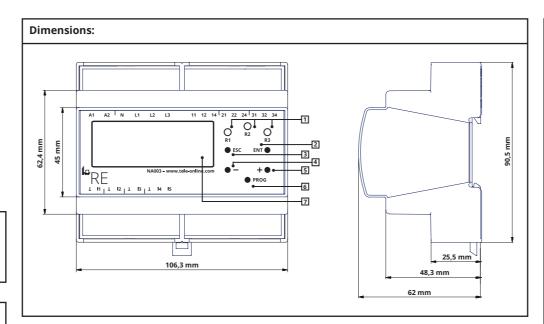
- Eliminate all faults immediately which may endanger safety!
- Do not make any unauthorised changes and only use replacement parts and optional accessories purchased from or recommended by TELE!
- In case of obvious damage the device must be checked and replaced if necessary!
- Country specific regulations have to be considered in any case!
- If required by national standards, the NA003 has to be protected against unauthorized changes by password and/or sealing!

Mounting on DIN rail according to EN 60715:

Snap the rear mounting clip of the device into place in such a way that a safe and tight fit is ensured.

Available configurations:

CEI 0-21, VDE V 0126-1-1, VDE-AR-N 4105, according to VDE V 0124-100, G59/3 LV, G59/3 MV, G83/2, C10-11 LV, C10-11 MV, TR3-according to BDEW 2008, OENorm E 8001-4-712, EN50438, EN50438 (DK), OPEN SETUP



Quick Start Guide

Torminale

Controls:				
Legend	Marking	Туре	Function	
1	R1, R2, R3	LED (yellow)	Status indication output relays	
2	ENT	Pushbutton	ENTER, Input confirmation, menu level forward	
3	ESC	Pushbutton	ESCAPE, Input rejection, menu level back	
4	-	Pushbutton	Change parameters, menu navigation	
5	+	Pushbutton	Change parameters, menu navigation	
6	PROG	Pushbutton (sealable)	PROGRAM, Enter Program mode	
7		LCD-Display 4x20 characters	Display	

A1, A2	Supply	DC: 24V AC: 110 - 230V A1: L (+) A2: N (-)
L1, L2, L3, N	Measuring input	U _N : 3x400V AC
11, 12, 14	Relay channel A (CO contact) Status indication via yellow LED R1	Potential free changeover contact 11: Common 12: Normally closed contact 14: Normally open contact
21, 22, 24	Relay channel B (CO contact) Status indication via yellow LED R2	Potential free changeover contact 11: Common 12: Normally closed contact 14: Normally open contact
31, 32, 34	Relay channel D (CO contact) Status indication via yellow LED R3	Potential free changeover contact 11: Common 12: Normally closed contact 14: Normally open contact
11,⊥	Digital input 1 (Feedback contact contactor A)	Potential free (24V/5mA) Input active: I1 and ⊥ connected
12, ⊥	Digital input 2 (Feedback contact contactor B)	Potential free (24V/5mA) Input active: I2 and ⊥ connected Does not apply to national standards without functional safety!
13,⊥	Digital input 3 (Remote disconnection)	Potential free (24V/5mA) Input active: I3 and ⊥ connected
I4, I5, ⊥	Digital inputs 4 und 5 (Parameter switchover)	Applies to CEI 0-21 Potential free (24V/5mA) Input active: I4 resp. I5 and ⊥ connected

Technical data:

Supply circuit A1 (L +); A2 (N -) Terminals: Supply voltage: DC: 24V AC: 110 - 230V Supply voltage tolerance: DC: ± 10% AC: + 30% Rated frequency: 50 / 60Hz Tolerance of rated frequency: 48 - 63Hz

In order to ensure the proper function during power failures, an external UPS has to be used.

4 kV

Measuring circuit

Rated surge voltage:

Terminals: L1-L2-L3-N 3 x 400V AC Measuring input:

line to line voltage, line to neutral voltage, Measurand:

10 minutes average voltage, frequency,

rate of change of frequency (RoCoF), phase shift (PShift)

Measuring ranges

0 - 560VAC Line to line voltage: Line to neutral voltage: 0 - 325VAC Frequency: 40 - 65Hz RoCoF: 100mHz/s ... 2.000mHz/s

Pshift: 1 - 15°

Digital inputs

Terminals: I1 and \bot ; I2 and \bot ; I3 and \bot ; I4 resp. I5 and \bot

Type of contact: potential free

Min. switching voltage / switching current: 24V / 5mA

Output circuit

R1: 11-12-14 Terminals: R2: 21-22-24 R3: 31-32-34

Number of contacts: 3 changeover contacts Contact material: AgNi

5A / 250V AC Rated current:

Electrical endurance: 100 x 10³ switching cycles (AC-1) Mechanical endurance: 15 x 10⁶ switching cycles

Accuracy

Voltage monitoring:

Base accuracy: < 0,5% @ +25°C Temperature influence: < 0,01% / °C Resolution: 10mV

Frequency monitoring:

< 0,01Hz @ +25°C Base accuracy: Temperature influence: < 0,0002Hz / °C Resolution: 1mHz

Isolation data Rated insulation voltage: 400V

Supply circuit / Measuring circuit: protective separation Supply circuit / Output circuit: protective separation Supply circuit / Digital inputs: protective separation Output circuit / Measuring circuit: basic insulation Output circuit / Digital inputs: basic insulation

Environmental conditions

Ambient temperature operation: -25 ... +55°C -40 ... +70°C Ambient temperature storage: -15 ... +55°C Visibility temperature display:

Relative humidity: 5 ... 95% (non-condensing) Weight:

300g

Electrical connection

Wire size: max. 2,5mm² Stripping length: max. 8mm

max. 450V/16A (digital inputs; relay outputs) Electrical strength:

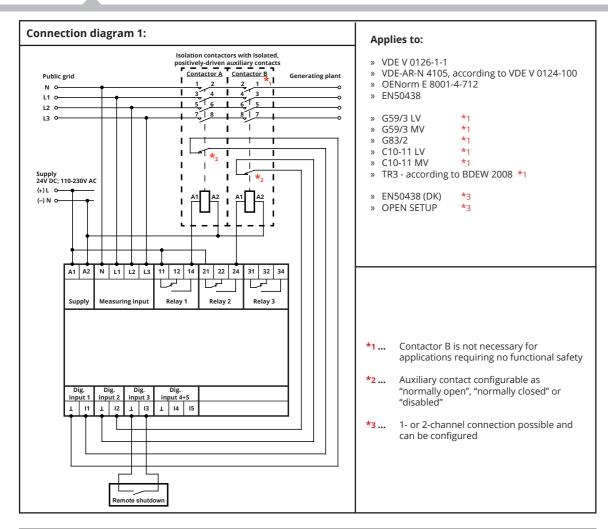
max. 750V/16A (measuring inputs)

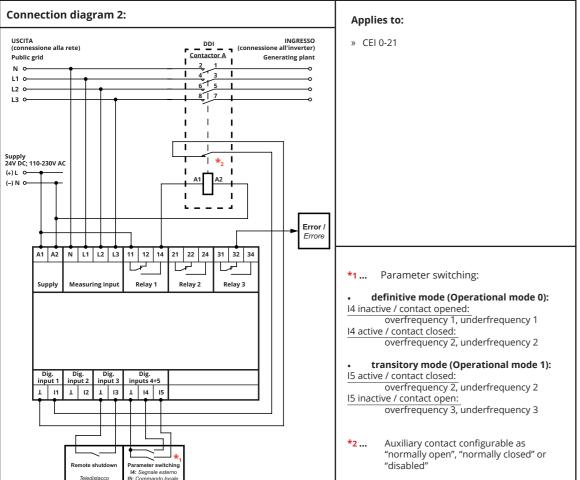
max. 0.5Nm Torque Screw: M3, slotted recess for screw driver 0,6 x 3,5mm

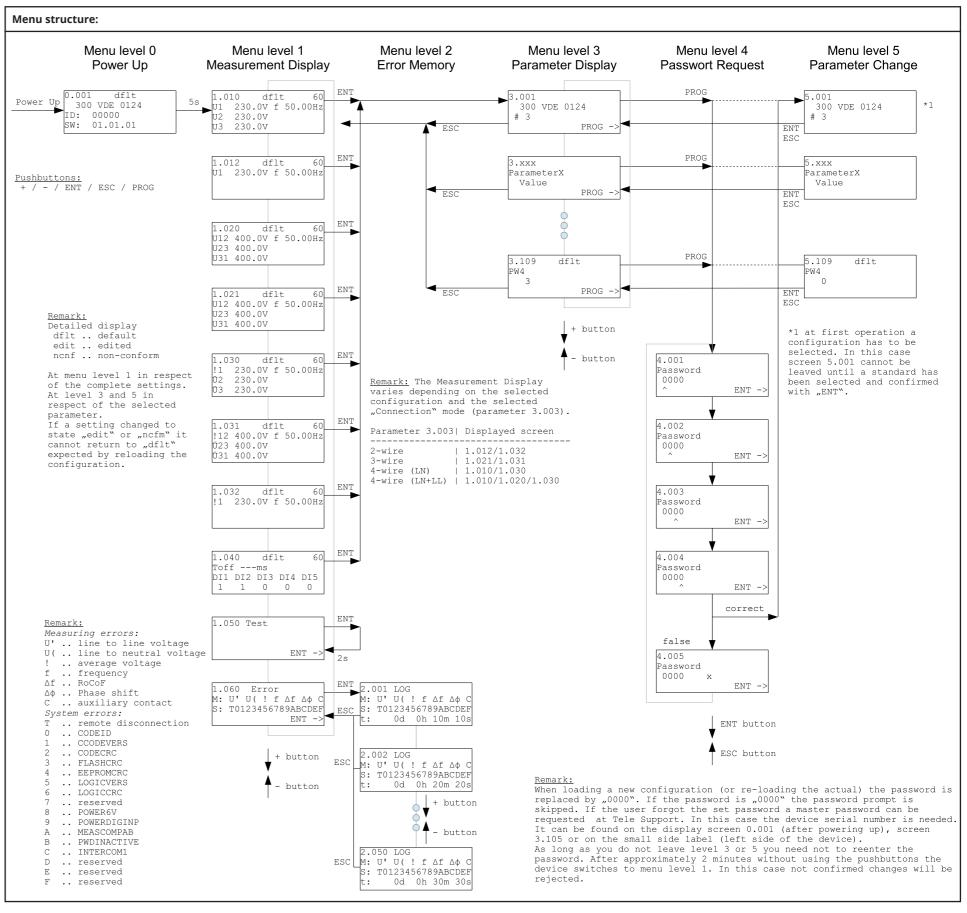
Sealing wire Ø max. 0,8mm

Art.Nr.: 2700000









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