



NV 2 TC
Installation instructions

Connection

Hints

The NV 2 TC has to be installed in dry rooms with temperatures between -5°C to 45°C . The installation must be carried out professionally.

Please note:

Caution when installing the accumulators to prevent fire caused by short-circuits or alkali burns through leaking ingredients.

Hints for the end user

Used accumulators can be returned to the retailer, where the NV 2 TC was purchased, or to the pollutant depot of your community. The accumulators will be recycled according to the „Recycling management law“ and „Waste management law“ and disposed in an environment-friendly way.

The customers are legally obligated to return the accumulators. It is forbidden to throw the accumulators away.

The sign „☒“ indicates that the accumulators are not allowed to be thrown away, but instead have to be returned.

The sign „Pb“ points out that the accumulator contains the harmful substance lead.

Installation

To open the NV 2 TC, unlock the cover, hold the cover with both hands in the upper area, tilt the cover to the front and lift it up (see picture 1, left).

The base plate is installed with at least three attachment points on the wall. It is also possible to use two more attachment points, if required (see picture 2,A). For the installation use appropriate screws and dowels.

For connection of the cables (see section „Installation“), remove the head pieces. Fix the cables at the provided brackets of the base plate and connect the wires.

For the connection of a TC and the power supply see picture 3.

The terminals L1 and N are connected to the 230-V-supply. The ground wire is connected to terminal PE.

The appropriate TC is connected with the NV 2 TC as shown in picture 3. The terminals + and – are for the supply unit of the TC and the NA for the output „power failure“.

The plug power supply of the TC is not needed.

Now install the accumulator(s) according to the instructions below.

After installation, cut the cable entry of the head pieces according to the size of the entered cable out.

Afterwards, plug the upper and lower head pieces onto the base plate.

Finally, insert the cover with opened latch in the guide slot of the base plate and then push them up (see picture 1, right). After closing the NV 2 TC, is ready-to-operate.

Installation of the accumulators

Plug the flat receptacles with correct polarity (red on plus) on the flat plugs of the accumulator and position the accumulator with the flat plugs to the right side. If the upper platform is used for a second accumulator, position this accumulator with the flat plugs to the left side (picture 2 C). Please note when using two accumulators available under the article number 241008) that both accumulators must have the same state of discharge during the connection. Otherwise, the fuses Si1 and Si2 could be blown. If uncertain, charge each accumulator separately (at least three hours).

Function

The NV 2 TC keeps the Te-
lecontrol devices TC, TC EIB
and TC Alarm as well as the
designs for mounting on a
DIN-rail (TCR and TCR Alarm)
functioning during a power fail-
ure (see chart on page 6).
The buffering time is reduced
with activated outputs and
depends mainly on the relays
being used.

With the installation of a se-
cond accumulator, the buffe-
ring time doubles.

A power failure will be noti-
fied after approximately 15
minutes by a switching output
(NA). This message can be
passed on from the TC to the
telecommunication system, if
required.

It is also possible to draw up
to 500 mA current from the
NV 2 TC (for instance: exter-
nal alarm sensors). However,
the current being used for
feeding external sensors will
reduce the buffering time for
the TC.

To lock the NV 2 TC-housing,
you can exchange the catch
with a safety lock, available
under the article number 690
324.

Together with the safety lock
a micro switch is delivered
to mount on the upper head
piece of the housing (picture
2,B). The switch can be inte-
grated in a sabotage line of
an alarm system or if desired
to one of the alarm inputs of
the TC.

Technical Data

Power supply

Voltage	230 V (+ 6 %, - 10 %) 50 Hz
Power consumption	max. 35 VA
Fuse 1	5 x 20 mm; 0.2 A T/250 V

Accumulator

Nominal voltage	12 V
Nominal capacity	6.5 Ah
Dimensions l x w x h	151 x 65 x 94 mm
Weight	2500 g

Connections

Battery	Flat plugs 4.8 - DIN 46244
Battery connection cable	Flat receptacles 4.8 - DIN 46247
Fuse 2 and 3	5 x 20 mm; 2.5 A T/250 V
Output (terminals + and -)	13.8 V, 1.2 A max.
Switching output NA	open collector 50 mA 24 V

Temperature range

Operation	-5 °C to 45 °C
Storage	-25 °C to 70 °C
l x w x h	295 x 320 x 99 mm
	approx. 5500 g (incl. 1 accu)

Dimensions

Weight

Material

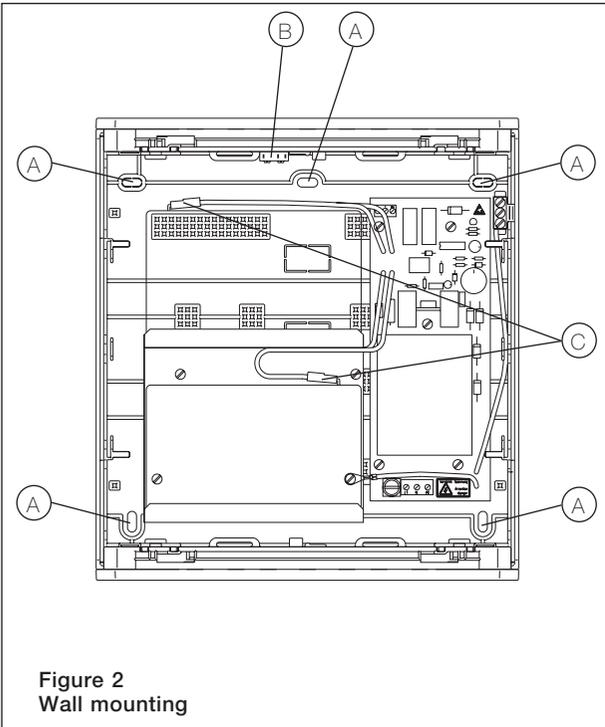
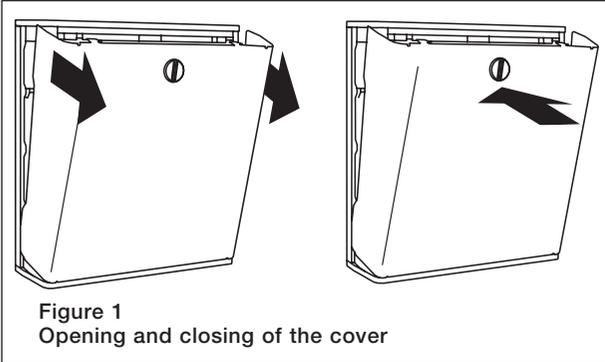
Base plate and head pieces	Plastic material ABS flame retardant according to UL 94.VO, platinum grey, si- milar RAL 7036
Cover	sheet-steel, plastic coated light grey, similar RAL 7035 with catch

Protection class

closed	IP 40 according to EN 60529
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Accessory

2 nd accu	Article no. 241 008
Lock set	Article no. 690 317



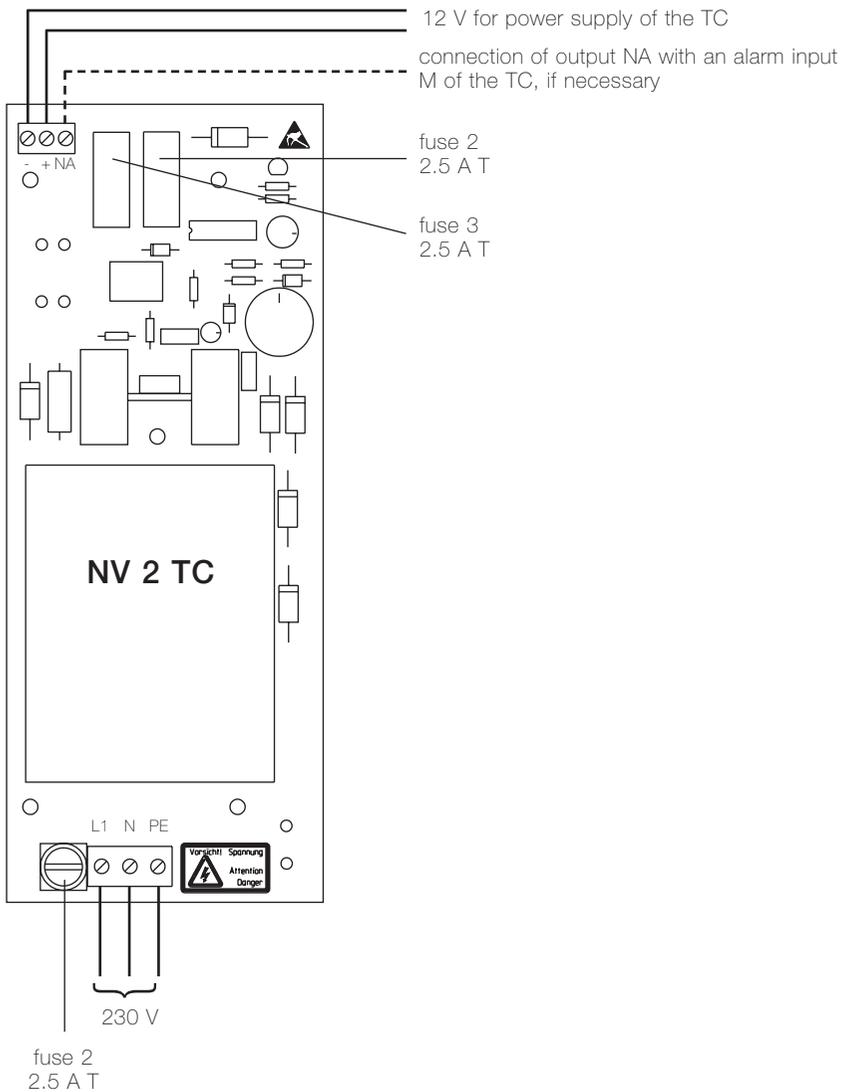


Figure 3
Connection diagram

Discharge Behavior

The following table shows the discharge behavior of the NV 2 TC with different load.

Status	Current in mA	Time in Hours
TC idle	40	190
TC on subscriber line	90	90
TC idle + 1 output (50 mA)	90	90
TC idle + 2 outputs (50 mA each)	140	60
TC idle + 3 outputs (50 mA each)	190	42
TC idle + 4 outputs (50 mA each)	240	35
TC idle + all outputs (50 mA each)	290	29
TCR easy idle	17	> 200
TCR easy + relay set on	53	160
TCR easy +TCR Z easy (1 relay set on)	88	90
TCR easy +TCR Z easy (2 relays set on)	123	75
TCR easy +TCR Z easy (3 relays set on)	158	55
TCR easy +TCR Z easy (4 relays set on)	193	40

Guaranty

Warranty

We guarantee the perfect function of the NV 2 TC for 2 years after date of purchase (receipt) providing that it was professionally installed and operated.

Service

In case of a malfunction, consult your dealer or send the device with receipt and a short description of the malfunction with appropriate postage to:

**Rutenbeck Service-Center
Gewerbegebiet
Im Meilesfelde 5
99819 Marksuhl
Germany**

Phone +49 36925 90091

Fax +49 36925 90092

Manufacturer's Declaration

We, Wilhelm Rutenbeck GmbH & Co. KG, declare on our sole responsibility, that the NV 2 TC is in compliance with the essential requirements and provisions of the directives 2004/108/EG and 2006/95/EG.

The complete declaration of conformity can be found under www.rutenbeck.de in the download-sector.

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