

## Wall Transmitter Ncall N46

**User Manual** 

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#### Terminology

In this manual, the status of inputs and outputs is described with the terms **activated** or **released** :

- Activated means that the contact of an NO input or output is closed, or that the contact of an NC input or output is open. The activated state is <u>always</u> represented by the symbol or.
- Released means that the contact of an NO input or output is open, or that the contact of an NC input or output is closed. The **released** state is <u>always</u> represented by the symbol **5**.

#### **Models and Options**

(o) The availability of the functions or specifications marked with this abbreviation depends on the chosen model or options.

In the *Nursecall* system, the Wall Transmitter *NCall N*46 allows the resident of a home or the patient of a clinic to easily alert the care personnel if needed. The patient simply has to push the large red button. The system is then able to control and to monitor the progress of the Care Personnel.

The transmission is mainly performed by radio. There is no need for a wired connection between the Transmitter and the Reception Unit, this makes the system installation easy and allows great mobility.

Depending on the model, two relay outputs<sup>(o)</sup> are available which may be used to connect alarm and staff presence indicators such as, for instance, the signal lamps installed above the door.

Two signal lamps (LED) allow the progress to be monitored on the device.

In this User Manual you will find all the information you need for the installation and the use of the Wall Transmitter *NCall N46*.

#### **Performance Characteristics**

With its multi-functionality, the Wall Transmitter *NCall N*46 fulfils the toughest requirement in all social and medical areas such as homes for elderly people, clinics or hospitals.

The following are the key performance characteristics of the Wall Transmitter NCall N46:

- Fast installation and mobility achieved by radio transmission of the calls (no wiring needed)
- Driving of the lamps used to display the calls and the staff presence status by way of two relay contact outputs<sup>(o)</sup>
- Indication of the intervention state by LEDs
- Provision for a12 to 24 VDC external power supply
- High working reliability secured by the transmission of a programmable daily message and automatic controls
- Wall mount or on any type of support
- A large red button with cam structure is used to trigger the Calls for Help
- A blue button allows the Care Personnel to summon assistance if needed
- A third acknowledgement button (green) is used by the Caregivers to signal their presence and the end of their intervention
- A phone jack Ø 3,5 mm allows to connect a remote Call for Help button on a long cable in order to make it easier to trigger the Call for Help
- Possibility to transmit arrival and departure of up to four different categories of Caregivers
- Secured connection of the phone jack prevents the cable from being pulled out accidentally
- Detection and transmission in case of the remote Call for Help button is pulled out
- A terminal block allows connection of up to three external triggering devices for additional calls or alarms.
- The configuration carried out by jumpers and solder-bridges allows to adapt the device to many uses
- The connection compartment is easily reached for configuration, wiring and maintenance (check and change of battery)
- Long term battery life with standard CR 2450 lithium battery

The three coloured buttons provide, in most cases, the most common form of operation.

The large red button with cam structure is used to trigger the Call for Help. The round blue button triggers the Call for Assistance.

These two alarms are repeated automatically about every 2 minutes until the green acknowledgement button has been pressed.

The signal lamp on the top of the red button goes on every time a radio-transmission takes place and is used to indicate the alarm status on the transmitter. A second signal lamp indicates the presence status.



Figure 1

#### Wall Mount

The Wall Transmitter *NCall N*46 can be fixed with two to five screws on a wall. Two holes at 60 mm interval are provided for direct mounting on connection boxes.

The three upper holes are used for positioning the device and cannot be reached from the Connection Compartment.

Two of the lower holes can be reached from outside and thus used for fixing the device.





#### **Connection Compartment**

Most of the wiring, configuration and maintenance functions such as :

- Connection of the external power supply
- Connection of the wired inputs and outputs
- Choice of the triggering edge of external **Call for help** trigger, **Technical Call** and **Call for Help 2** inputs (normally open or normally closed) at jumpers J1, J2 and J3
- Installation or replacement of battery
- Checking of the battery voltage

can be carried out in the connection compartment. It is reached by taking off the lower part of the housing (see Figure 1). This can be done even if the device is fixed on the wall.

The connection cables can be channelled towards the outside through the hole next to the terminal blocks or downwards by breaking off part of the rear housing.

#### **Power Supply**

The Wall Transmitter *NCall N46* can be powered by a lithium battery or/and an external 12-24 VDC power supply. If the device is powered with an external power supply, the battery is not necessary, but it can be used as a backup power supply in case of power loss.

If the device is powered by the battery only, the battery life is about 2 years. However it is advisable to change the battery once a year.

If the device is powered by an external power supply and the battery is used as backup power supply, it is advisable to check it at regular intervals (for instance once a year) and to change it if necessary.

#### Reset

All parameters are reset when powering up the device (battery <u>or</u> external power supply). This operation causes the synchronization of the daily message.

In order to perform a reset, make sure to **remove both the battery** <u>and</u> **the external power supply**, do a short-circuit on the two pins marked **Reset** on the next figure before powering the device up again.

#### **Important Note:**

All connections as well as the configuration need to be carried out before powering the device (insertion of the battery and/or application of the external power supply).

#### **Transmitter Identification**

All Wall Transmitters *NCall N*46 are provided with their own radio identification code that is assigned when manufactured. During the installation, it is necessary to set the relation between the identification code of the Transmitter and the place where it is installed (floor/room/bed or single number). This relation is programmed on the Master Nursecall Unit (refer to the Nursecall User Manual).

#### **Operation Check**

Once the transmitter has been installed and set-up properly, it is recommended to check all functionalities of the device. The radio transmission can be checked by sending an acknowledgement call (press green button).

#### **Configuration and Wiring**



\* Solder bridges B1 and B2 are located on the bottom side of the PCB:



### **A** Important Note:

Setting-up one or more inputs to "NC" position results to higher power consumption. This configuration should be used with external power supply or will reduce the battery life.

#### Inputs and Outputs

		Jack	1.7	NO*	Contact closing causes a Call for Help
External trigger	J4	3.5 mm	JI	NC 🛆	Contact opening causes a Call for Help
Power supply	15	1		+	12 to 24 V DC
rower supply		2			

#### Wired Outputs<sup>(o)</sup>:

			B1	NO*	A Call for Help causes the closing of the relay
Call for Help Re-	15	2 1			contact
lay <sup>(o)</sup>	10	3-4		NC	A Call for Help causes the opening of the
					relay contact
	J5	5-6	B2	NO*	Staff Presence signalling causes the closing of
Staff Presence					the relay
Relay <sup>(o)</sup>				NC	Staff Presence signalling causes the opening of
					the relay

#### Wired Inputs:

Call for Help	J6	1-2			The contact closing causes a Call for Help
T I · I · I		0.4		NO*	The contact closing causes a Technical Alarm
Technical Alarm	JQ	3-4	J2	NC 🛆	The contact opening causes a Technical Alarm
Call for Help 2 or	14	15	12	NO*	The contact closing causes a Call for Help 2 or a Call for Assistance
Call for Assistance	10	4-3	10	NC 🛦	The contact opening causes a Call for Help 2 or a Call for Assistance

\*Delivery state

#### **General Configuration** Bridge State Function Open\* Technical Alarms are not repeated BЗ Soldered Technical Alarms are repeated until alarm acknowledgement (max 20 min.) Calls (except technical alarms) are repeated until call acknowledgement Open\* Β4 (max 20 minutes) Soldered Calls (except technical alarms) are not repeated Open\* A daily message is sent every 24 hours B5 Soldered Daily messages are suppressed Open\*\* Staff Presence Processing is activated Β6 Soldered\*\* Staff Presence Processing is disabled Activation of J6 [4-5] terminal input causes a Call for Help 2 Open\* B7 Soldered Activation of J6 [4-5] terminal input causes a Call for Assistance Open \* The Assistance Call does not depend on the presence of the Care Personnel B8 The Assistance Call is possible only if the Care Personnel has signalled Soldered his/her presence

\* Delivery state

\*\* N46 Wall transmitters that feature the output relays are delivered with the Staff Presence Processing activated (B6 open), models that do not feature the output relays are delivered with the Staff Presence Processing disabled (B6 soldered). Every time the Wall Transmitter NCall N46 is used by pressing a button or activating a wired input, the device sends a radio signal and the lamps indicates its actual state. Two relays allow the transmission of status to a remote display such as the signal lamps placed on top of the door.

Each radio message is sent with a different code which allows the receiver (*Mursecall* system) to recognize the action performed. The Wall Transmitter *NCall* N46 transmits the described next criterions.

## It is advisable to keep the button pressed until the lamp placed above the red button lights up.

#### Call for Help

The **Call for Help** can be triggered in three different ways:

- By pushing the Call for Help button (red)
- By pushing the external switch connected to the **J4** connector
- By pushing the external button connected to terminals 1 and 2 of the terminal block J6.

The **Call for Help** is repeated about every 2 minutes until a call acknowledgement takes place, up to a maximum of 20 minutes. This repeat function can be disabled by setting the solder bridge **B4**.

A **Call for Help** is signalled by red flashes on the signal lamp and by the activation of the relay<sup>(o)</sup> **Call for Help**.

Note:

In some cases, the action **Call for Help** generates a **Call for Assistance**<sup>1</sup> action.

#### **Call for Assistance**

The Call for Assistance is triggered by pushing the Call for Assistance button (blue).

The **Call for Assistance** is repeated about every 2 minutes until a call acknowledgement takes place, up to a maximum of 20 minutes. This repeat function can be disabled by setting the solder bridge **B4**.

A **Call for Assistance** is signalled by red double flashes on the signal lamp and by the alternate action/release of the relay<sup>(o)</sup> **Call for Help**.

<u>Note</u>:

In some cases, the action **Call for Assistance** generates a **Call for Help**<sup>1</sup> action.

<sup>&</sup>lt;sup>1</sup> See chapter Mode of Operation (page 14)

#### Call Acknowledgement (Presence Signal)

The call acknowledgement is triggered by pushing the **Acknowledgement** button (green).

The call acknowledgement stops immediately all repetitions of the calls.

A call acknowledgement triggers the **Staff Presence** signal:

- by green flashes on the signal lamp and by activating the **Staff Presence** relay<sup>(o)</sup> when the Caregiver pushes the **Acknowledgement** button when entering the room.
- by switching off the lamp and releasing the **Staff Presence** relay<sup>(o)</sup> when the Caregiver pushes the **Acknowledgement** button and leaves the room.

#### Note:

In some circumstances the device may react differently to the acknowledgement of a call<sup>2</sup>.

#### Call for Help 2 (reserve)

The **Call for Help 2** is triggered by pushing the external button connected to terminals **4** and **5** of terminal block **J6**.

The call can be triggered by closing (NO) or opening (NC) the contact<sup>3</sup>.

The **Call for Help 2** is repeated about every 2 minutes until a call acknowledgement takes place, up to a maximum of 20 minutes. This repeat function can be disabled by setting the solder bridge **B4**.

The Call for Help 2 is signalled in the same way as the Call for Help on the signal lamp and the  $relays^{(o)}$ .

#### **Technical Alarm**

The **Technical Alarm** is triggered by activating the contact connected to terminals **3** and **4** of terminal block **J6**.

The alarm can be triggered by closing (NO) or opening (NC) the contact<sup>3</sup>.

Normally, the **Technical Alarm** is not repeated, but it is possible to activate the repetition of the technical alarms by setting the solder bridge **B3**. In this case, the **Technical Alarm** is repeated about every 2 minutes until a call acknowledgement takes place, up to a maximum of 20 minutes.

The **Technical Alarm** is signalled in the same way as the **Call for Help** on the signal lamp and the relays<sup>(o)</sup>.

<sup>&</sup>lt;sup>2</sup> See chapter **Mode of Operation** (page 14)

<sup>&</sup>lt;sup>3</sup> See chapter Configuration and Wiring (page 8)

#### Caregiver Arrival<sup>(o)</sup>

The **Caregiver Arrival** message is triggered when the Caregiver inserts the coded key in the connector on the side of the housing (**J7**), when entering the room.

Up to four categories of Caregivers may be identified by using different keys.

The Caregiver Arrival message is not repeated.

Insertion of the coded key is signalled by green flashes on the signal lamp and by activating the  ${\bf Staff Presence}\ {\rm relay}^{(\!o\!)}$ 

Note:

In some circumstances the device may react differently when the coded key is inserted<sup>4</sup>.

#### Caregiver Departure<sup>(o)</sup>

The **Caregiver Departure** message is triggered when the Caregiver removes the coded key from the housing, when leaving the room.

The Caregiver Departure message is not repeated.

Removing the coded key is signalled by switching off the green flashes on the signal lamp and by releasing the **Staff Presence**  $relay^{(o)}$ 

Note:

In some circumstances the device may react differently when the coded key is removed<sup>4</sup>.

#### Daily Message and Battery Low Message

The radio transmission can be checked by way of the **Daily Message** which is automatically sent about every 24 hours. When the battery voltage is too low, the Daily Message is replaced by a **Battery Low** Message.

The transmission of the Daily Message can be disabled by setting the solder bridge **B5** (this does not influence the transmission of the **Battery Low** message).

#### **Error Message**

The **Error Message** is sent every 2 minutes if the device has detected a general dysfunction, or if one of the following triggering devices remains in its activated position for up to 4 minutes:

- Call for Help
- Acknowledgement button
- Call for Assistance
- Call for Help 2

Note:

The device connected to the **Technical Alarm** input is allowed to remain in the activated position; without transmission of the Error Message.

<sup>&</sup>lt;sup>4</sup> See chapter Mode of Operation (page 14)

**General Data** 

HOUSING Plastic case ASA for wall mount (L x H x P) Weight	133 x 82 x 26 mm about 200 g
BATTERY POWER SUPPLY: Lithium battery Current consumption in stand-by mode Peak current consumption at alarm transmission Battery autonomy	Type CR 2450 (3 V) max 10 μA max 30 mA 2 years
EXTERNAL POWER SUPPLY Current consumption in stand-by mode Peak current consumption at alarm transmission	+12-24 VDC max 10 mA max 40 mA
RADIO TRANSMISSION PART Transmission frequency Channel Modulation Duration of transmission Stability (-10°C +70°C)	434,01 MHz 1 FSK (F1D) <1 s ± 10 ppm
OUTPUT RELAY <sup>(o)</sup> Max. switching power Max. switching voltage Max. switching current	125 VA / 60 W 48 V DC 2 A
CODED KEYS Key with code <b>07</b> Key with code <b>08</b> Key with code <b>09</b> Key with code <b>10</b>	$R = 3.3 k\Omega$ $R = 4.7 k\Omega$ $R = 10 k\Omega$ $R = 22 k\Omega$

Technical data is subject to changes.

#### Mode of Operation

During operation, the Wall transmitter *NCall* N46 can be set to one of six following states:

State	Description
Stand-by	No call is being processed.
Alarm without Staff Pres-	The patient has triggered a Call for Help but the Care Personnel has
ence	not yet responded.
Alarm with Staff Presence	The Care Personnel has responded after a Call for Help.
Assistance without Staff	A Call for Assistance has been triggered without the presence of the
Presence	Care Personnel.
Assistance with Staff Pres-	A Call for Assistance has been triggered in the presence of the Care
ence	Personnel.
Staff Presence without	The Care Personnel has responded without the previous call from the
alarm	patient.

Each state is indicated by the signal lamp and by a special position of the output relays<sup>(o)</sup>.

It is possible to configure<sup>5</sup> the Wall Transmitter *NCall N*46 in order that:

- the Call for Assistance can be triggered only if the Care Personnel is present.
- the device does not manage the Staff Presence. This mode makes sense only if the output relays<sup>(o)</sup> are not provided or not used.

The transition to a specific condition depends on the device configuration, of its actual condition and of the action completed; as shown on the following charts.

#### <u>Note</u>:

When the Wall Transmitter NCall N46 is powered by an external power supply, the signal lamps follow the state of the corresponding relay outputs.

#### Legend of Illustrations:

AOO	The contact of the <b>Call for Help</b> relay <sup>(o)</sup> is activated
AOO	The contact of the <b>Call for Help</b> relay <sup>(o)</sup> is released
AOO	The contact of the <b>Call for Help</b> relay <sup>(o)</sup> opens and closes alternately
POO	The contact of the <b>Staff Presence</b> relay <sup>(0)</sup> is activated
POO	The contact of the <b>Staff Presence</b> relay <sup>(o)</sup> is released
0	The signal lamps are off
Colour	A signal lamp lights up in the indicated colour
Kcolour	A signal lamp "flashes" in the indicated colour
Xcolour	A signal lamp generates "double-flashes" in the indicated colour
×	Transmission of a radio message

<sup>&</sup>lt;sup>5</sup> See chapter **Configuration and Wiring** (page 8)

Staff Prese	nce Processii	ng Activated				
State before	Stand-by	Alarm with-	Alarm with	Assistance	Assistance	Staff Pres-
action		out Staff	Staff Pres-	with Staff	without Staff	ence without
		Presence	ence	Presence	Presence	alarm
	AOO	AOO	AOO	AOO	AOO	AOO
	POO	POO	ΡΟΟ	POO	POO	ΡΟΟ
	$\cap$	Υ.			۰.	
	0	red	K green	K green	red 🔨	K green
State after a	Alarm with	Alarm with	Assistanco	Assistanco	Assistanco	Alarm with
Call for	Aum win-	Alum win-	with Staff	with Staff	without Staff	Staff Pres-
Help	Presence	Presence	Presence	Presence	Presence	ence
	AOO	AOO			A O O	
			P C C	P C C		P C C
	💻 red	💻 red	💻 green	💻 green	🦰 red	💻 green
Radio Mes-	✓Call for	✓ Call for	✓Call for	🖌 Call for	✓ Call for	✓Call for
sage	Help	Help	Assistance	Assistance	Assistance	Help
Starte after a	Staff Dage		Stara al la*			Starra al las s*
	Sidii Fres-	Staff Pros	Sidha-by	Staff Pros	Staff Pros	Sidha-by
knowledge-	alarm	ence		ence	ence	
ment			400			400
	POO	POO	POO		POO	POO
	green	green		green	green	
Radio Mes-	Acknow-	Acknowl-	Acknow-	Acknow-	Acknow-	Acknow-
suge	leagement	edgemeni	ledgemeni	ledgemeni	ledgemeni	ledgemeni
State after a	Assistance	Assistance	Assistance	Assistance	Assistance	Assistance
Call for	without Staff	without Staff	with Staff	with Staff	without Staff	with Staff
Assistance	Presence **	Presence <sup>**</sup>	Presence	Presence	Presence	Presence
	AOO	AOO	AOO	AOO	AOO	AOO
	POO	POO	POO	ΡΟΟ	POO	ΡΟΟ
	<b>)</b>					
Radio Mes-	✓ red	✓ red ✓ Call for	✓ Gill for	✓ green	✓ red	✓ Gill for
sage	Assistance**	Assistance**	Assistance	Assistance	Assistance	Assistance

## Technical Data

State before action	Stand-by	Alarm with- out Staff Presence	Alarm with Staff Pres- ence	Assistance with Staff Presence	Assistance without Staff Presence	Staff Pres- ence without alarm
	A 00	A 0 0	A 00	AOO	AOO	A 0 0
	POO	POO	ΡΟΟ	ΡΟΟ	POO	ΡΟΟ
	0	💓 red	👅 green	🗶 <sub>green</sub>	💢 <sub>red</sub>	💓 green
					-	
State after	Staff Pres-	Alarm with	Alarm with	Assistance	Alarm with	Staff Pres-
coded key insertion <sup>(o)</sup>	ence without alarm	Statt Pres- ence	Statt Pres- ence	Presence	Statt Pres- ence	ence without alarm
	AOO	AOO	AOO	AOO	AOO	AOO
	POO	POO	P O O	POO	P O O	POO
	💻 green	💻 green	💻 green	💻 green	💻 green	💻 green
Radio Mes-	✓ Staff arri-	✓ Staff arri-	✓ Staff arri-	✓ Staff arri-	✓ Staff arri-	✓ Staff arri-
sage	val with	val with	val with	val with	val with	val with
	code	COUE	code	code	coue	COUE
State after coded key removal <sup>(o)</sup>	Stand-by	Not possible	Stand-by***	Assistance without Staff Presence	Not possible	Stand-by
	AOO		AOO	AOO		AOO
	POO		POO	POO		POO
	0		0	💢 <sub>red</sub>		0
Radio Mes-	≠Staff de-		₩Staff de-	≠ Staff de-		₩Staff de-
sage	parture with		parture with	parture with		parture with
	code		code	code		code

\* There is no state change when the coded key is inserted.

\*\*If the function Assistance only in case of Staff Presence is activated and the NCaUN46 is not in Staff presence state, the Call for Assistance causes a state Alarm without Staff Presence and a Call for Help radio message.

\*\*\* If the call has not been acknowledged, removing the key will turn the *NCall* N46 in Alarm without Staff Presence state.

### Calls for Help 2 and Technical Alarms:

Actions **Calls for Help 2** and **Technical Alarms** are indicated in the same way as a **Call for Help**, but the criterion transmitted by the radio message corresponds to the triggered action.

Staff Prese	nce Processi	ng Disabled	
State before	Stand-by	Alarm with-	Assistance
action		out Staff	without Staff
		Presence	Presence
	AOO	AOO	AOO
	POO	POO	POO
	Ŭ	red	red red
State after a	Alarm with-	Alarm with-	Assistance
Call for	out Staff	out Staff	without Staff
Help	Presence	Presence	Presence
	AOO	AOO	AUU
	💻 red	💻 red	Red Red
Radio Mes-	✓Call for	🖌 Call for	🖌 Call for
sage	Help	Help	assistance
State atter a	Stand-by	Stand-by	Stand-by
knowledge-	AOO	AOO	AOO
ment	POO	POO	POO
	O	O	
Radio Mes-	Acknow-	Acknow-	Acknow-
sage	leagement	leagement	ledgement
State after a	Assistance	Assistance	Assistance
Call for	without Staff	without Staff	without Staff
Assistance	Presence *	Presence *	Presence
		AOO	
	P O O	POO	
	ᠵ red	ᠵ red	red 🖉
Radio Mes-	✓ Call for	✓ Call for	✓ Call for
saae	Assistance*	Assistance*	Assistance

## Technical Data

		A.I			
State betore	Stand-by	Alarm with-		Assistance	
action		out Staff		without Staff	
		Presence		Presence	
				-	
	AOO	AOO		AOO	
	POO	POO		POO	
	$\cap$	Ж.			
	0	📉 red		red 🔨	
State after	Stand-by	Alarm with-		Assistance	
coded key		out Staff		without Staff	
insertion <sup>(o)</sup>		Presence		Presence	
	AU	AUU		AU	
	РОО	ΡΟΟ		P <b>O O</b>	
	0	Trad			
Radio Mes-	N Statt arri-	N Statt arri-		N Statt arri-	
sage	val with	val with		val with	
	code	code		code	
State after	Stand-by	Alarm with-		Assistance	
coded key		out Staff		without Staff	
removal <sup>(o)</sup>		Presence		Presence	
	AOO	AUU		AUU	
	РОО	ΡΟΟ		ΡΟΟ	
	0	X red		X rad	
Radio Mes	✓ Staff da	✓ Staff do		✓ Staff de	
	parturo with	parturo with		parture with	
suye					
	code	code		code	

\* If the function **Assistance only in case of Staff Presence** is activated, the Call for Assistance causes a state **Alarm without Staff Presence** and a **Call for Help** radio message. This configuration cancels the processing of the **Calls for Assistance**.

### Calls for Help 2 and Technical Alarms:

Actions **Calls for Help 2** and **Technical Calls** are indicated in the same way as **Call for Help**, but the criterion transmitted by the radio message corresponds to the triggered action.

# EC Declaration of Conformity

English : We declare that this product complies with the requirements of the EC Radio & Telecommu- nications Terminal Equipment R&TTE Directive 1999/5/EC, specifically with requirements detailed below. All modifica- tions made without our agree- ment will invalidate this decla- ration.	Deutsch : Hiermit erklären wir, dass das nachfolgend bezeichnete Er- zeugnis aufgrund seiner Konzipierung und Bauart den einschlägigen grundlegenden Anforderungen der EU R&TTE Richtlinie 1999/5/EU, insbe- sondere nachfolgend genan- nten Richtlinien, entspricht. Bei einer nicht mit uns abges- timmten Änderung des Er- zeugnisses verliert diese Erk- lärung ihre Gültigkeit. Bezeichnung des Erzeugnisses :	<b><u>Français</u></b> : Nous déclarons que ce produit est, dans sa conception et con- struction, conforme aux exi- gences de la directive R&TTE 1999/5/UE de l'Union Eu- ropéenne, spécifiquement selon les directives et normes détaillées ci-dessous. Toute modification apportée au pro- duit sans notre approbation annule cette déclaration.		
Wall-transmitter	Mehrkriterien-Funkmelder	Emetteur multicritères		
Product or component refer- ence :	Gerätetyp/Bezeichnung der Einzelkomponenten :	Dénomination de l'appareil ou des composants :		
	Ncall N46			
Relevant EC Standards:	Einschlägige EU-Richtlinien:	Directives normatives EC :		
LDV	73/23/EEC EMC 89/336/	(EEC		
Applied Harmonised Standards:	Angewandte harmonisierte Normen:	Normes harmonisées appli- quées :		
EN 60950 A1-A4 EN	1 50130-4 EN 55022 cl	ass 2 ETS 300220-1		
Notified Body:	Benannte Stelle:	Organisme notifié:		
Under the manufacturer re- sponsibility:	Diese Erklärung wird verant- wortlich für den Hersteller:	Sous la responsabilité du pro- ducteur:		
TELECTRONIC SA, rue du Nord	I 176, CH-2300 La Chaux-de-Fo	onds		
This conformity statement is declared by:	Abgegeben durch:	La conformité est déclarée par:		
D. Schwendener Product Manager	r N	P. A. Nicati Aanaging Director		
Place: La. Chaux-Ale Date: . 1011200.3 Signature:	Fauel.S Place: Date: Signature:	a Chaux-de-Torrels le 10.11.2003 P-A Lical		

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