

Test Device for ISDN Installations

SiTi

Quick and easy testing
with four LEDs

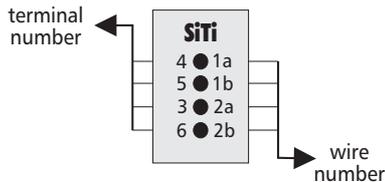


P/N 130 659-E

User Manual SiTi

The **SiTi** is a simple device for testing the installation of an ISDN-S₀-connection. Checking of the installation is done by plugging the **SiTi** into the RJ45 jack. The terminating resistors should not yet be mounted.

The four LEDs of the **SiTi** show the wiring diagram of the four terminating wires for the ISDN-installation.



1. Check of the NTBA Connection

First the ISDN connection at the NTBA is checked at normal and at emergency operation.

Normal mode means that the NTBA is connected to the 230 V mains.

Emergency mode means that the NTBA is **not** connected to the 230 V mains and the installation is supplied by the Telecom power supply.

When the **SiTi** is plugged into the jacks of the NTBA, the four LEDs light green when the NTBA is working in normal operation, if it is running in the emergency mode all LEDs light red, provided that the NTBA and the attachment are working correctly.

2. Check of the Wall Outlet Installation

The NTBA has to run in normal operation and the terminating resistors should not be mounted when the wall outlet installation is tested. The **SiTi** is plugged in one jack after another (see error chart on the back).

3. Enhanced Check for S₀-Bus Installation

If more than one ISDN device is to run at one ISDN installation it is important that wires 2a and 2b are not reversed when terminated.

In order to exclude reversal of these two wires, wire 2a is interrupted at the first possibility of the ISDN installation. Now the **SiTi** should show at each wall outlet the interruption of wire 2a.

If it is showing interruption of wire 2b this proves that wire 2a and 2b have been reversed.

When all reversals have been detected and corrected, wire 2a can be reterminated.

4. Test Completion

After completing all tests the terminating resistors are mounted and the ISDN installation can be put into operation.

Error Detection SiTi

When testing the wall outlets the LEDs on the **SiTi** will light as follows:

all LEDs light green	all wires are connected correctly
all LEDs light red	all wires have been misconnected
all LEDs are off	short circuit on the wire pairs or interruption on at least two wires of a pair
one or several LEDs are off	interruption of such wire of which the related LED is off
one or several LEDs light red	misconnection of such wire of which the related LED lights red

By combining those four LEDs with their different conditions green, red and off, the **SiTi** can show more than 40 different wiring conditions. The following chart shows some examples.

LED auf dem SiTi

1a (4)	1b (5)	2a (3)	2b (6)	Error
off	green	green	green	wire 1a is interrupted
green	green	off	green	wire 2a is interrupted
red	green	green	red	wire 1a has been reversed with wire 2b
green	red	green	red	wire 1b has been reversed with wire 2b
green	red	off	green	wire 1b interrupted, wire 2a connected to terminal 5 instead of terminal 3
red	red	red	red	all wires are misconnected or the NTBA is running in emergency mode

Note:

The SiTi is not meant for steady operation. Use it only for testing.

Designed and manufactured by:



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Subject to technical change.