BLACK BOX Catalogue Ltd
The Source for Connectivity

ISDN Budget Tester

TSU9021

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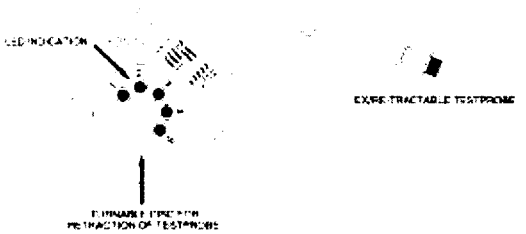
USER MANUAL

Congratulations, on your purchase of the ISDN Budget tester. You have just acquired a unique analysing device for checking an ISDN S-Bus. This tester has a combination of analysing features that can not be found on any other device in this price range.

- Fits any outlet under any angle because of the extractable/retractable plug end.
- Retracted plug end is protected in housing.
- Small size thus easy to handle (tape measure size).
- Attractive design.
- One LED go-no-go wiring check.
- Additional power supply indicators.
- ISDN data activity discrimination.
- Designed and made in The Netherlands.



The tester is very easy to use. Just pull the plug out of the tester and connect it to an ACTIVE ISDN S-Bus. You will get an instant readout on the status of the line. This covers data transmission on an ISDN level including wiring connection.
For instance you can measure if a newly installed NT operates by calling yourself via an outside line with your portable phone. The TX LED will light up if it is functioning. If there is a device on the bus that answers, the RX LED will also light up.
Individual device checking on the S-Bus is another option. Connect the tester to an outlet of the bus. Call the device number you want to check via an outside line. You will see the TX LED light up. If the called number answers the RX LED will light up indicating that all is OK. If it does not light up it could mean that the number is incorrectly programmed in the device or that the device is faulty.

FUNCTION DESCRIPTION

LED1

LED colour	Status
Red	There is an ISDN signal on line 3 and 6 (RX of NT)
No light	No ISDN signal on lines.

LED2

LED colour	Status
Red	There is an ISDN signal on line 4 and 5 (TX of NT)
No light	No ISDN signal on lines.

LED3

LED colour	Status	Error
Bright Green	OK	
Bright Red	Not OK	- RX (3-6)/TX (4-5) changed or - NT in restricted mode
Weak Green	Not OK	Broken wire
Weak Red	Not OK	Broken wire
No light	Not OK	- 2 Broken wires. - 1 conductor changed between RX and TX. - NT not connected. - Short between RX and TX.

LED4

LED colour	Status	Condition
Green	Power 2 present	
Red	Power 2 present	- NT in restricted mode or - Wire change of pin 7 and 8
Amber	AC current on line	Not OK
No light	No power	

LED5

LED colour	Status	Condition
Green	Power 3 present	Pin 1 = +, Pin 2 = -
Red	Power 3 present	Pin 1 = -, Pin 2 = +
Amber	AC current on line	
No light	No power	

NOTE: The above-mentioned readouts are qualifications rather then quantification's. They are not complete and it can be possible that there are errors in the S-Bus that are not identified by the tester.

Technical specifications:

Power supply	Phantom power
Connection to S-Bus	extractable RJ45 (8P8C) plug
Impedance for power measurement	±4kΩ parallel to S-Bus
Impedance for activity measurement	±10kΩ parallel to S-Bus
Size in mm (LxWxH)	75x68x26
Weight	± 50gr

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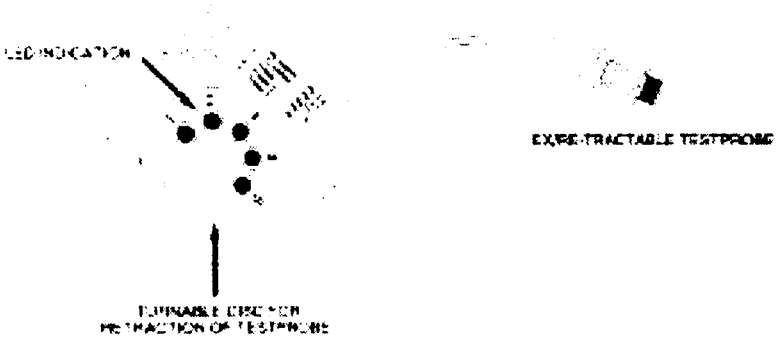

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