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DBT100A MIL-STD-1553 Network Tester

BETA TRANSFORMER TECHNOLOGY CORPORATION
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Data Sheet

The DBT100A is an easy-to-use battery-powered, hand-held tester able to quickly troubleshoot or test out a MIL-STD-1553B data bus network. By means of several press-to-test switches, an LCD display and nine pass/fail LEDs, the DBT100A can detect shorts, opens, crossovers and shorts-to-shield on the bus and stubs. These checks are to be performed from the LRU ends of the stub cables only. One of the test modes, DC Resistance, can be used as a general purpose ohm meter with a range of 0 to 199.9 ohms.

A remote unit is provided for the phase/crossover test. The tester operates with a common 9V battery that is readily available. A battery and charger is provided to charge the batteries. Longer battery life is made possible by the press-to-test feature of the tester. To conserve battery life the circuit in the remote unit is in an idle, or "keep alive" mode, when not actually being interrogated. There is a master on/off switch on the remote unit.

The display consists of LED go/no-go indicators and a 0.4 inch, 3 1/2 digit LCD readout for the ohm-meter mode (0 to 199.9 Ohms).



North Hills 1553 Network Tester, Model DBT 100A in storage case.

***North Hills Application Note 255 -** *"North Hills Model DBT100A Network Tester User's Guide"* provides further information on the operation of the tester.

Features:

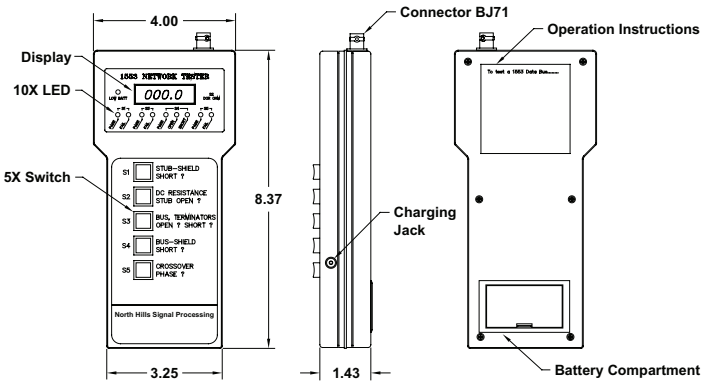
- Go/No-go indicators
- Operating instructions on tester
- Battery operation - standard batteries

Benefits:

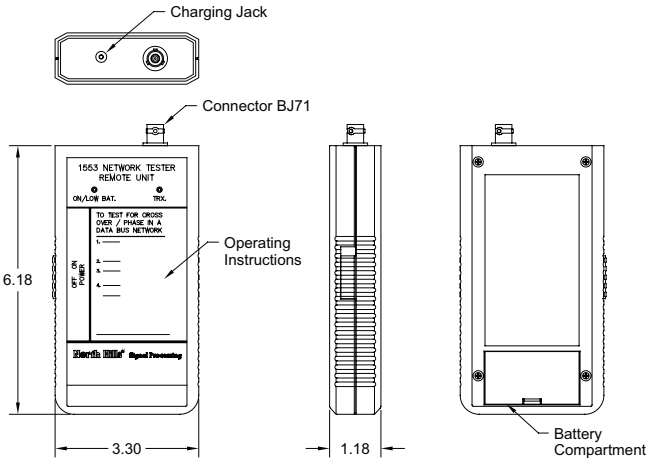
- Fast, easy testing
- One-man operation
- Detects all common problems: shorts, opens, shorts-to-shield, crossovers/phasing

Technical Drawing

Main Unit



Remote Unit



North Hills™

For more information: www.BTTC-Beta.com/DBT100A

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Specifications

Main unit	
Parameter	**Description**
Displays	
DC Resistance	0.4 inch, 3 1/2 digit LCD 0 to 199.9 Ohms
Shorts and opens	LED: Green = Pass, Red = Fail
Common Mode	LED: Green = Pass, Red = Fail
Shorts-to-shield	LED: Green = Pass, Red = Fail
Crossover/phase	LED: Green = Pass, Red = Fail
Battery Low	Indicated by flashing LED
Test Method	Press-to-Test
Stub Connector	3-lug 70 Series Jack
Mating Connector	571-10-6302 (Trompeter PL75 type)

Remote unit:	
Parameter	**Description**
Displays	
Power on	Red LED
XMT	Green LED
Battery low	Indicated by flashing LED
Stub Connector	3-lug 70 Series Jack
Mating Connector	571-10-6302 (Trompeter PL75 type)

Power Requirements	
Parameter	**Description**
Batteries	Rechargeable 9V Lithium-ion
Battery life	10 hours Minimum*
Battery charger	Input 100-240VAC 50/60 Hz
Charging Time	1 hour
*Assuming continuous use with 20% duty cycle. Under normal usage a battery set should last for several 8-hour days.	

Temperature Requirements	
Parameter	**Description**
Storage	-40 to +50 degrees centrigrade
(Operating)	-10 to +50 degrees centrigrade

Cable Sets

The tester is provided with two 3-foot MIL-STD-17/176-00002 cables with a PL73 push-on type connector on each end. Other cables and adapters are available as listed below. All cables listed are three feet long. Consult the factory for custom cables or adapters.

P/N	Connectors	Descriptions
N14017-060	PL73/PL73	Mates with any 70-series jack
N14017-061	PL73/PL153	Mates with any 150-series jack
N14017-062	PL73/Pig Tails	For mounting your connector
N14017-063	PL73/M39029/91	Mates with M39029/90 contact
N14017-064	PL73/M39029/90	Mates with M39029/91 contact
N14017-065	PL73/20 AWG pins	Mates with 20 AWG sockets
N14017-066	PL73/20 AWG sockets	Mates with 20 AWG pins
571-10-8327	BJ70/BJ70 Adapter	70-series jack barrel adapter
571-12-8301	BJ150/BJ150 Adapter	150-series jack barrel adapter
571-10-8328	BJ70/PL155	BJ70-to-PL155 adapter
571-10-8329	BJ70/PL375	BJ70-to-PL375 adapter
571-10-8330	BJ70/PL3155	BJ70-to-PL3155 adapter
NH14017C		Carry case
NH14017K		Calibration device

Ordering Information

Model DBT100A consists of the following:

NH14017MA	Main Unit
NH14017R	Remote Unit
NH14017BC	Battery Charger (1)
N14017-060	Cable Assembly PL73 3 ft. (2)

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