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Test & Measurement

- > sales
- > rentals
- > calibration
- > repair
- > disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

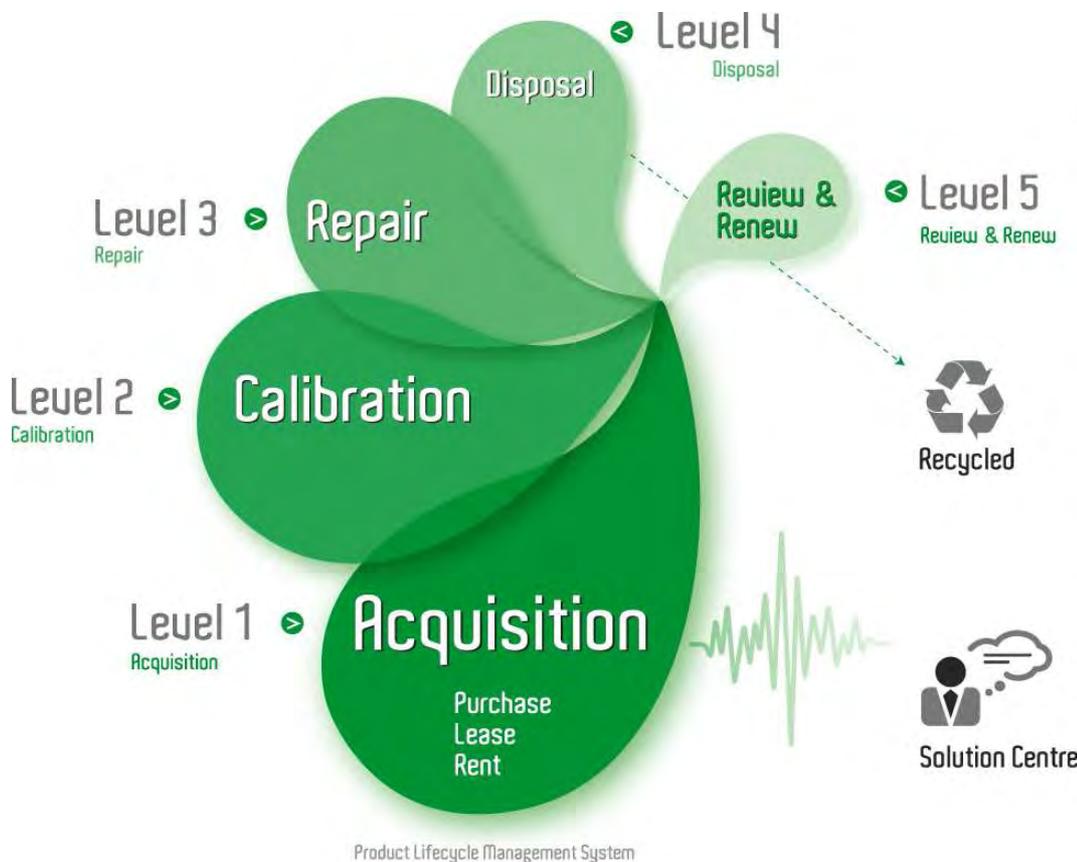
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TMG Corporate Website

TMG Products Website



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MOHR™ CT100 Series

High-Resolution Automated Metallic TDR Cable Testers

Ideal for maintenance of modern microwave/RF and digital communications systems



Key Features

- As low as 60 ps system risetime (20-80%)
- 75 micron (0.003 in.) cursor resolution
- 16-bit digital sampling
- Up to 500 waveforms/sec
- 2 GB storage, enough for thousands of traces
- USB host/client, 10/100 Ethernet
- Lightweight, bright color screen
- Internet streaming and remote control

Mohr CT100 Series TDRs are the industry's most capable and versatile tools for troubleshooting and maintenance of modern microwave/RF and digital communications cables and interconnects.

Features and Benefits

Industry's Best Cable Fault Sensitivity

With ultrawideband step-pulse architecture and 16-bit digital sampling, these instruments can detect subtle cable faults before they impair system performance.

Industry's Best Cursor Resolution

Measure cable length and localize faults with 75 micron (0.003 in.) precision, hundreds of times better than competing TDR and FDR instruments.

Industry's Best Spatial Resolution

With the ability to resolve faults and interconnect and PCB features located less than 9 mm (CT100HF) or 14 mm (CT100) apart, CT100 Series TDRs have spatial resolution many times sharper than competing TDR and FDR instruments.

High-Resolution Cable Scanning

Scan a cable or portion of a cable at high-resolution (up to millions of points); later, translate and rescale for comparison to other scanned or live traces, either on the device itself or on the included CT Viewer™ TDR analysis software package.

Capture Rapid Transient Faults

With the ability to acquire up to 500 waveforms per second, CT100 Series TDRs are uniquely able to identify and localize transient faults that other instruments would miss.

Versatile Connectivity Options

Client USB and 10/100 Mb Ethernet ports for connection to a PC and host USB port compatible with USB thumbdrives, keyboards, and barcode readers. Now featuring live LAN/WAN/Internet streaming and remote control of any CT100 Series TDR via CT Viewer™.

Ergonomics for Easy Use

Rugged, portable, and lightweight, CT100 Series TDRs feature long battery life and bright daylight-readable color screens.

Applications

CATV, Power, Telephony
Naval / Marine
Wireless Infrastructure
Aerospace / Aviation
PC Board Controlled Impedance
TDR Sensors (Soil Moisture, Geophysics)

Specifications

TDR System Characteristics

Excitation Signal: Step-rise, 300 mV into 50 Ω load
System Risetime (20-80%, typ.): 60 ps, 100 ps (CT100HF, CT100)
Timebase Resolution: 760 fs
Timebase Random Jitter (typ.): < 1 ps rms
Timebase Non-Linearity (typ.): < 1%
Sample Resolution: 16 bits
Sequential Sample Rate: 12.5 - 250 kHz
TDR Framerate: 25 - 500 waveforms/s

Horizontal System

Range: 0 - 30,000 ft. (0 - 9 km)
Scales: 0.003 - 400 ft./div (0 - 125 m/div)
Cursor Resolution: 0.003 in. (75 μ m) at VoP 0.66
Accuracy (max, 0-50°C): < 1% of measured distance, typ. < 1 mm

Velocity of Propagation

Range: 0.250000 to 1.000000
Resolution: 0.000001
Fine / Coarse VoP Adjustment: 0.000001, 0.001

Vertical System

Range: < 1.0 Ω to > 1500.0 Ω
Resolution: \leq 0.1 Ω , depending on scale
Accuracy (typ.): < 1% of measured value or < 1 Ω , 0 to 1000 Ω
Accuracy (max, 0-50°C): < 10% of measured value, 0 to 1000 Ω

Measurements/Math

Measurements at Active Cursor: Time-to-fault, distance-to-fault, Ohms-at-cursor, reflection coefficient, return loss
Measurements Between Cursors: Δ time, Δ distance, Δ Ohms, Δ reflection coefficient, relative return loss
Waveform Processing: Averaging (smoothing), subtraction, first derivative, FFT, 1-port S-parameter estimation (S11)

Special Features

Functions: AutoFit™, AutoScan™
Libraries: Waveform library, cable-type library, configuration library

Data Storage

2+ GB flash memory, thousands of high-resolution cable scans

Connectivity

Standard Features: USB host (front panel) and client (rear panel), 10/100 Mb Ethernet, optional 802.11b/g wireless networking
Special Features: Live streaming and remote control of any CT100 Series TDR over LAN/WAN/Internet using CT Viewer™

Display

Color LED-BL 4.3 in. (10.9 cm) WQVGA TFT-LCD, > 600 cd/m²

Power System

AC Power: 110/220 VAC (\pm 10%), 50/60 Hz 1-phase, using AC adapter
Battery Power: Internal NiMH DC battery
Battery Life: >8h (typical use), unlimited with external battery packs
Battery Charging: <1 h low-battery, <4 h fully-discharged

Environmental and Mechanical

Operating / Non-Operating Temp.: 0°C to +50°C / -20°C to +60°C
Dimensions: 4.3(H) x 11.5(W) x 6.9(L) in. (10.9 x 29.2 x 17.5 cm)
Weight: 5.1 lbs. (2.3 kg) with cover, 4.7 lbs. (2.2 kg) without cover

Regulatory



Complies with all applicable EU directives, as specified by the instrument's Declaration of Conformity.

MIL-SPEC: Exceeds all Class 3 instrument requirements per MIL-PRF-28800F. Safe for explosive atmosphere use per MIL-STD-810G 511.5 Procedure 1 (+55°C, sea level to 4600 m).

MOHR™

Test and Measurement Solutions for Industry™

Ordering Information

General Options

CT100, BNC test port (self-grounding)
CT100HF, SMA test port

Standard Accessories (Included)

One (1) License CT Viewer™ Software
Standard Calibration Kit
Operator's Manuals
Rugged Soft-Sided Carrying Case
External AC Power Adapter
USB / Ethernet Cables
NIST-Traceable Calibration / Certificate
12-Month Standard Limited Warranty

Optional Accessories

General

Small Form-Factor Keyboard CT100-AC-KBD
External Battery Pack (2700 mAh) CT100-AC-B270E
Hard Carrying Case CT100-AC-CH

Adapter Kits

SMA Adapter Kit CT100-AK-SMA
BNC Adapter Kit CT100-AK-BNC

Impedance Matching Adapters

50 Ω to 75 Ω CT100-AC-I5075-BNC/SMA
50 Ω to 93 Ω CT100-AC-I5093-BNC/SMA
50 Ω to 125 Ω CT100-AC-I50125-BNC/SMA

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