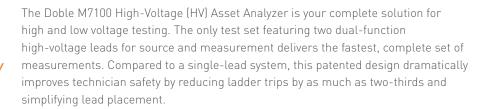
# **DOBLE OFF-LINE TESTING & ASSESSMENT**

# M7100™

High-Voltage Asset Analyzer

# THE MOST-COMPREHENSIVE, FASTEST SOLUTION FOR TESTING WITH BUILT-IN SAFETY



The M7100 automates multiple tests, previously performed by several pieces of equipment, cutting down testing time from seven hours to one and a half hours. Reduced testing time means technicians can safely perform more commissioning, scheduled maintenance and diagnostic activities.

#### **FEATURES**

- Patented dual-function high-voltage lead design allows you to switch between source and measurement—both capabilities are within each HV lead
- Built-in low voltage/high current multi-frequency source
- True 4-Terminal measurements
- Easy setup using either a color or number to indicate the connection
- Only dual high-voltage lead test set in the industry
- Standard two-year warranty and two-year calibration interval based upon accuracy and reliability in the field

### **BENEFITS**

#### **FAST AND EFFICIENT**

- Finish testing in a third of the time
- Replace a truck full of instruments and cables

#### **COMPREHENSIVE**

• Maximize your outages and limit safety risk

#### **EASY AND SAFE**

- Greatly reduce the number of ladder trips technicians are exposed to per job
- A dual-lead system eliminates most steps needed for connection, reducing errors during lead placement —where most mistakes occur—and instilling confidence in testing
- Enhanced safety with special safety switch design and emergency stop switch





# **Doble Asset Management Software and Database**

Extend the value of the test result data from the M7100 High-Voltage Asset Analyzer with additional tools to proactively manage the lifecycle of your assets. Combine the M7100 with other Doble software solutions to collect, store and analyze data from high-voltage testing. Provide field staff with secure universal controllers – laptops or tablets built specifically for field applications – to quickly evaluate apparatus test results.



#### Doble Test Assistant Software (DTA)

Pair the M7100 with Doble Test Assistant Software (DTA) for automated control and testing of the instrument. This single platform provides built-in templates for all configurations and types of HV assets including transformers, breakers, cables, instrument transformers, surge arresters, rotating machines and more.

#### **DTAWeb**

DTAWeb database software stores and organizes test result data from the M7100 and other Doble test equipment. Upload and download data to a remote Doble-hosted database and eliminate the need to maintain a server and manage database installation and upgrades. Harness the power of the dobleDATABASE, which includes millions of aggregated asset test results, to understand how your assets are performing compared to others in the industry.





#### **DUCe for Apparatus Testing**

Doble Universal Controller enterprise (DUCe) for Apparatus Testing automates multiple manual steps in traditional testing workflows, provides effective cybersecurity controls to protect your substation assets and offers a selection of versatile and rugged controllers. Automatically updates the database to avoid trapping data on laptops.



SUPPORTED STANDARDS		
IEEE	C57.152 C57.13 C57.13.6 C57.19.01 286	
IEC	60076-1 60137 61850-9-2-Ed.2 B	
IEC/TR	60894	
NETA	2011 Maintenance 7.2.2 2007 Acceptance 7.19.2	

TEST CAPABILITIES		
Power Factor/Tan Delta		
Variable Frequency Power Factor/Tan Delta		
Demagnetization Feature		
3 Phase Turns Ratio		
10 kV Turns Ratio		
Short Circuit Impedance Leakage Reactance (10, 30)		

**FUTURE ENHANCEMENTS** 

OLTC Dynamic Resistance Measurement (DRM)
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Capacitor Bank

INCLUDED ACCESSORIES	
SYSTEM CABLES	
Туре	Quantity
High Voltage Cables	2
Low Voltage Cables (Red, Blue, Yellow, Black)	4
Measurement Cables (Red, Blue, Yellow)	3
Ground Lead (Copper)	1
OLTC Control Cable	1
USB Cable	1
Ethernet Cable	1
AC Power Cord	1
External Temperature & Humidity Module w/Cable	1
External LED Strobe Lamp w/Cable	1
8' (2.4M) Integrated Safety Switch/Cable	1
65' [19.8M] Integrated Safety Switch/Cable	1
Doble Bushing Tap Adapters	4
Hot Collar Straps	7
5 ft Copper Jumpers	5
OPTIONAL ACCESSORIES	
M7 Truck	
MFL Liquid Insulation Test Cell	
Type C Resonator (Up to 12 kV)	
Doble Universal Controller (DUC)	

Doble Universal Controller (DUC)



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