

DOBLE ON-LINE MONITORING

doblePRIME ANALYTICS

Analytical Core for the doblePRIME Condition Monitoring Platform

DATA ACQUISITION
HUB, DATA HISTORIAN
AND ANALYSIS DEVICE
FOR COMPREHENSIVE
CONDITION MONITORING

The doblePRIME Analytics is a communication gateway and data analysis device at the core of the doblePRIME Condition Monitoring Platform. The doblePRIME Analytics unit aggregates data from monitoring devices, sensors and operational data sources for a comprehensive view of asset condition. It provides communications, analytics and alerts/alarms for any individual monitor or combination of monitoring devices. This interface is scalable and customizable, working with your existing monitoring program and offering the flexibility to integrate into an asset risk management system, such as dobleARMS™.

FEATURES

- Comprehensive dashboard view for all components integrated into the doblePRIME Condition Monitoring Platform, e.g. DGA, thermal, partial discharge and bushing monitors
- Aggregates and analyzes data from monitoring devices, sensors and operational data sources
- Geographic information system interface also gives access to individual monitors and asset information
- Accepts direct inputs from analog sources, such as temperature probes and V/I measurement devices
- Intelligent Expert System with advanced analytics learns system characteristics
- Advanced communications capability
- Data historian and data integrity validation
- Provides condition and operation status analyses

BENEFITS

- Scalable, customizable device pulls data from your preferred combination of monitoring devices and sensors to give a more complete view of asset health
- Save costly equipment by quickly reacting to rapid deterioration warnings
- Identify problems and diagnose the severity of the situation
- Plan for replacements in a proactive, risk management approach
- Flexible device can be the core of your condition monitoring platform for one asset or one substation; it can also connect that location to a comprehensive risk management system, such as dobleARMS™
- See all relevant data through server-based, geographic information system architecture for rapid visualization and situational awareness
- Provide key information to tactical and strategic asset management systems



doblePRIME ANALYTICS TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

Operating System	Linux
CPU	Intel Atom @ 1.86GHz
RAM	4GB
Storage	128GB SSD

COMMUNICATION INTERFACES

LAN (Gigabit)	2 (Isolated, IEEE 1588 enabled)
USB 2.0	4
RS232	2
RS485	2 (2.5 kV isolation)

VIDEO

VGA	1
HDMI	1

I/O

Relay	6, 250 VAC 5A
Status LED	4, Status, Info, Warning, Action
Switch Input	6, wet or dry contact
Analogue Input	4, 4-20 mA 16 Bit differential

PROTOCOLS

Modbus RTU Master and Slave
 Modbus TCP Client and Server
 DNP3 Master and Outstation
 IEC-61850

DISPLAY OPTIONS

10.4" Touch Panel
 Multi-function HMI

EXPERT SYSTEM

Integration of data from each networked IED to learn system characteristics and determine health

WEBSERVER

Provides access to: System configuration; Alerts interrogation; data visualization and manipulation; system visualization and diagnostics

IED SUPPORT

doblePRIME IEDs, including the IDD, PD-Guard, Delphi, Domino
 Third party IED: consult Doble

ENVIRONMENTAL

Humidity	0-95% non-condensing
Operating temperature	-20°C to +60°C
Extended temperature	-40°C to +75°C
Storage temperature	-20°C to +70°C

MECHANICAL DATA

Height	200mm / 7.9 in
Width	220mm / 8.7 in
Depth	66mm / 2.6 in
Weight	2kg / 4.4 lbs
Construction	Anodized aluminium

MOUNTING OPTIONS

Panel mount
 DIN Rail
 Rubber feet

POWER SUPPLY

External supply	24 V DC @ 1 A
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An optional power adapter can be supplied to suit global mains voltage

Ask about complete enclosure solutions with specific environment, network and power options.

Flexible and Modular to Suit Your Needs

Every substation or system is slightly different as are the operational and budgetary considerations that go along with them. Doble understands this and has taken an integrated platform approach. This lets you cost-effectively deploy a solution that fulfills your needs today and can scale whenever you are ready or necessity dictates.

Coverage For Your Entire System

The doblePRIME Condition Monitoring Platform is comprised of a set of core instruments, together with complementary instruments and services that extend diagnostic capabilities. These integrated tools give you the data and analysis you need to make the right tactical and strategic decisions on time and in time with real-time information. Doble's unparalleled experience in on-line and off-line testing and our unique database of millions of test records comes through in every analysis provided by your Doble solution.



Doble Engineering Company
 Worldwide Headquarters
 85 Walnut Street, Watertown, MA 02472 USA
 tel +1 617 926 4900 | fax +1 617 926 0528
www.doble.com

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 Doble is ISO certified.
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