

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

*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.



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Specifications are subject to change without notice.  
Doble is ISO certified.  
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