QCM-PPDM Portable partial discharge monitor for transformers and GIS

**TECHNICAL SPECIFICATIONS**

**Power supply**
- Voltage range: 95 to 304 VAC, 47-63 Hz; 24 to 31 DC universal supply
- Supply current: 110 VA or 220 VAC

**Mechanical**
- Weight: 17 kg [37.5 lbs]
- Dimensions: 508 mm x 355 mm x 254 mm [20" x 14" x 10""]

**Immunity**
- EMI / RFI immunity: IEC 61180-1
- EMC test compliance: BS EN61000-4-8, BS EN61000-4-11, BS EN61000-4-18; IEC 60255-5, BS EN55022 (:2006); BS EN61000-3-2 to -3-3, BS-EN61000-4-2 to -4-6, substations.
- Confirms to relevant specifications for monitoring / control equipment in HV substations.
- BS EN68-2-6, BS EN68-2-27, BS EN68-2-29
- BS EN60068-2-2, BS EN60068-2-1, BS EN60068-2-78
- IEEE C37.98 (Seismic Testing of Relays)

**Ambient operating temperature**
- 5 - 95% non-condensing
- -25ºC to +75ºC

**Remote Electro-mechanical software**
- Operating system: Windows XP / Windows 7 compatible
- PD alarms / PD warning: Yes
- System alarms: Yes
- Minimum size for installation: 20 MB
- Maximum monitoring locations: 1GB, upgradable (if required)
- Bandwidth: Total of 107.5 KS/s for 7 channels (simultaneous sampling)
- Output: 1.2 GHz
- Power: 70 W
- Voltage range: 90 to 264 VAC, 47-63 Hz; 40 to 290 VDC universal supply

**Others**
- Touch screen: (1024 x 768)
- Rotary / push button
- Display: 12" touch screen
- MCU (Master Control Unit): 1 additional channel for noise antenna
- Outputs: Alarm escalation in the sequence: PD fault alarm - PD device - System status indicator
- Noise: 1 additional channel for noise antenna
- Bandwidth: 70 W
- PD measurement under difficult conditions: Yes
- Quality testing for PD during or after assembling or manufacturing of GIS and power transformers. The system is field operated, touch screen based and gives engineers the tools required for diagnosing partial discharge with limited or no access to the main PDM infrastructure.

**PD testing and analysis whilst installation and commissioning of HV GIS and transformers.**
- Allows the operator to have confidence in the reliability and continued operation of the plant
- Extends residual life of aging plant and defers capital costs
- Implementation of efficient, condition-based maintenance strategies
- Excellent interference immunity for PD measurement under difficult conditions
- UV/IR filter: for rapid monitoring and analysis of partial discharge in gas insulated switchgear (GIS) and power transformers. The system is field operated, touch screen based and gives engineers the tools required for diagnosing partial discharge with limited or no access to the main PDM infrastructure.

**About QUALITROL**

Established in 1945, with continual improvement at the core of our business, QUALITROL provides smart utility asset based maintenance strategies which extend residual life of aging plant and defers capital costs without a loss of continued operation of the plant. The information gained from the system allows for rapid monitoring and analysis of partial discharge in gas insulated switchgear (GIS) and power transformers. When full characterization and localization of partial discharge faults to determine the severity of partial discharge is required, QUALITROL’s QCM-PPDM system is the ideal solution. QUALITROL helps the industry to optimize capital investments, asset protection equipment and information products across generation, transmission and distribution. QUALITROL is committed to developing condition monitoring technology for Electric utilities assets.

Qualitrol is a valuable partner to Electric utilities assets from design to commissioning. We have a broad range of scientific and research laboratories around the world.
**Handy system for precise assessment of partial discharge monitoring and periodic inspections**

- All testing functions integrated into a single, hand-carry system (17 kg [37.5 lbs]) in a compact enclosure with trolley wheels
- Wideband measurement across the frequency range of 300 - 1500 MHz
- Higher data acquisition rate of 1,440 samples per second
- UHF technology based proven for more than 20 years hardware and software in identifying partial discharge

**Full characterization and localization of partial discharge feeds to determine the severity in extending maintenance**

- Interpretation is based on multiple artificial neural network classification of events
- A reference library from the historic PD data of the same asset stored into real-time database (time stamped events for up to 10 years)
- Ability to detect multiple PD sources simultaneously
- Helps in approximate localization of partial discharge by amplitude comparison

**Very rapid and easy deployment enables maximum time for condition assessment of assets**

- Pre-installed software - no installation required on site
- Easy configuration of system (online / offline) using touch screen interface
- Sensors can be fitted to any available inspection hatch or manhole as a retrofit
- Require only one field engineer / operator with basic knowledge of partial discharge

**Robust and rugged design to maximize portable operation life and support inspections / testing for extended period of time (24 hours to 12 months)**

- IP65 rated highly protective case
- Built-in display (no separate laptop) helps in putting system in any environmental condition for longer time
- 16 GB data storage sufficient to store PD events continuously for 12 months
- Facility to store data into external storage further enhances data storage capacity

**Accurate fault detection improves reliability of HV testing ensuring safe and stable HV apparatus installed in substations**

- Outstanding sensitivity and unique accuracy (75 dBm / 5 pC) of UHF measurements
- In-built sensitivity of -75 dBm enables better PD analysis
- Noise gating by external signal antenna (optional)
- Cross channel coincidence gating

**HVS compatibility saves cost of buying different PD testing equipment for HVS apparatuses**

- Live streaming data recording up to 5 days
- Higher sampling rate (15,400 samples per second) improves the chances of PD detection
- In-built LCD screen with touch screen based interface
- Easy to add / modify / delete substation / site location
- 2D and 3D display of PD signals in multiple formats (Single Cycle, Peak Hold, QCM-PPDM, PRPD and STT)
- Automatic self-checks of PDM with faults logged and alarmed
- Trend analysis facility on stored PD data
- State of the art data export function for PD results

**Intelligent customizable reporting**

- Next based customizable reports created automatically in a single document. These reports indicate possible courses of action for customers
- Fast and easy access of data in generating reports

**Smart and quick real time alarming / alerting mechanism**

- Programmable alarm strikes and new alarms
- Facility to send alarms / warnings to local user interface
- Real-time monitoring of events with time accuracy of ± 1 millisecond

**Expandable and field upgradable without misconfiguration**

- Expansion of internal storage to 32 GB with ability to use removable / portable media e.g. USB memory stick for backup
- 2 GB program memory capable of being upgraded if required
- Supports the addition of future client applications
- Facility to link other portables to expand monitoring capabilities

**Other key benefits**

- Designed to meet highest security standards, including NERC cyber-security standards
- Built-in time synchronization through NTP / SNTP
- Provides timely information where needed through its multiple communication methods (Ethernet, USB)
- Superior safety in high voltage test setups

**System software - LCD display with full touch interface**

- Built-in time synchronization through NTP / SNTP
- Provides timely information where needed through its multiple communication methods (Ethernet, USB)
- Superior safety in high voltage test setups

**Key features**

- Clean, intuitive interface with QWERTY touch keyboard
- Display up to 6 UHF channels at once
- View live and recorded data in POW, PRPD, STT, history archive and event archive
- Easy configuration of all parameters
- Built-in self diagnostics

**Minimal installation and Smart inspection... ...from the world leader in PDM**

www.qualitrolcorp.com
QCM-PPDM Portable partial discharge monitor for transformers and GIS

Handy system for precise assessment of partial discharge Impedance changes and periodic inspections

• All testing functions integrated into a single, hand-carry system (17kg [37.5 lbs]) in a compact enclosure with trolley wheels
• Wideband measurement across the frequency range of 300 – 1500 MHz
• Higher data acquisition rate of 15400 samples per second
• UHF technology proven (for more than 20 years) hardware and software in identifying partial discharge

Full characterization and localization of partial discharge feeds to determine the severity of PD and help in scheduling condition assessment of assets

• Interpretation is based on multiple artificial neural network classification of events
• A reference library from the historic PD data of the same asset stored into real-time database (time stamped events for up to ten years)
• Ability to detect multiple PD sources simultaneously
• Helps in approximate localization of partial discharge by amplitude comparison

Very rapid and easy deployment enables maximum time for condition assessment of assets

• Pre-installed software – no installation required on site
• Easy configuration of system (WiFi / internet) using touch screen interface
• Sensors can be fitted to any available inspection hatch or manhole as a retrofit
• Require only one field engineer / operator with basic knowledge of partial discharge

Robust and rugged design to maximize portability, operation life and support inspections / testing for extended period of time (24 hours up to 12 months)

• IP67 rated highly protective case
• Built-in display (no separate laptop) helps in putting system in any environmental condition
• 16 GB data storage sufficient to store PD events continuously for 12 months
• Facility to store data into external storage further enhances data storage capacity

Accurate fault detection improves reliability of HV testing ensuring safe and stable HV apparatuses installed in substations

• Outstanding sensitivity and unique accuracy (75 dBm / 5pC) of UHF measurements
• In-built sensitivity of 75 dBm enables better PD analysis
• Noise gating by external signal antenna (optional)
• Cross channel coincidence gating
• Live stream data recording up to 8 days
• Higher sampling rate (15400 samples per second) improves the chances of PD detection

HIDC compatibility saves cost of buying different PD testing equipment for HIDC apparatuses

• In-built LCD screen with touch screen based interface
• Easy to add / modify / delete substation / site location
• 2D and 3D display of PD signals in multiple formats (Single Cycle, Peak Hold, etc.)
• Cross channel coincidence gating
• Real-time display of up to 6 UHF channels

Advanced HMI provisions (SmartUSS Software - intelligent data handling, display and interpretation)

• Built-in self diagnostics
• System software - LCD display with full touch interface
• Flight-friendly and lightweight system (17 kg [37.5 lbs]) and easy to operate by one person
• Built-in time synchronization through NTP / SNTP
• Supports the addition of future client applications
• Quick and easy access of data in generating reports
• Facility to link other portables to expand monitoring capabilities
• Programmable alarm criteria and rule engines
• Easy configuration of all parameters

Key features

• Clean, intuitive interface with QWERTY touch keyboard
• Display up to 6 UHF channels at once
• View live and recorded data on PD, PRPD, STT, history archive and event archive
• Facility to send alarms / warnings to local user interface
• Supports the addition of future client applications
• Easy configuration of all parameters
• Built-in self diagnostics

Potential key benefits

• State of the art data export function for PD results
• Trend analysis facility on stored PD data
• Automatic self-check of PDM with faults logged and alarmed
• Cross channel coincidence gating
• Facility to send alarms / warnings to local user interface
• Programmable alarm criteria and rule engines
• Run-time database (time stamped events for up to ten years)
• Supports the addition of future client applications
• Easy configuration of all parameters
• Facility to link other portables to expand monitoring capabilities
• Designed to meet highest security standards, including NERC cyber-security standards
• Provides timely information where needed through its multiple communication methods (Ethernet, USB)
• Superior safety in high voltage test setups
• Accurate fault detection improves reliability of HV testing ensuring safe and stable HV apparatuses installed in substations
• Facility to store data into external storage further enhances data storage capacity
• Live stream data recording up to 8 days
• Higher sampling rate (15400 samples per second) improves the chances of PD detection
• In-built LCD screen with touch screen based interface
• Easy to add / modify / delete substation / site location
• 2D and 3D display of PD signals in multiple formats (Single Cycle, Peak Hold, etc.)
• Cross channel coincidence gating
• Real-time display of up to 6 UHF channels

Minimal installation and Smart inspection...

...from the world leader in PDM
Handy system for precise assessment of partial discharge, ensuring safe and stable HV testing and periodic inspections

- All testing functions integrated into a single, hand-carry system (17 kg [37.5 lbs]) in a compact enclosure with trolley wheels
- Wideband measurement across the frequency range of 300 - 1500 MHz
- Higher data acquisition rate of 15,400 samples per second
- UHF technology proven for more than 20 years
- Hardware and software for identifying partial discharge

Full characterization and localization of partial discharge feeds to determine the severity of PD and help in scheduling condition assessment of assets

Intelligent customizable reporting
- Next based customizable reports created automatically in a single document
- These reports indicate possible courses of action for customers
- Fast and easy access of data in generating reports

Smart and quick real-time alarming / alarming mechanism
- Programmable alarm criteria and new channels
- Facility to send alarms / warnings to local user interface
- Real-time monitoring of events with time accuracy of 1 millisecond

Expandable and field upgradable without modification
- Expansion of internal memory to 32 GB with ability to use removable / portable media e.g. USB memory stick for backup
- 2 GB program memory capable of being upgraded if required
- Supports the addition of future client applications
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Other key benefits
- Designed to meet highest security standards, including NERC cyber-security standards
- Built-in time synchronization through NTP / SNTP
- Provides timely information where needed through its multiple communication methods (Ethernet, USB)
- Facility to link other portables to expand monitoring capabilities
- Supports the addition of future client applications
- Facility to send alarms / warnings to local user interface
- Programmable alarm criteria and rule engines
- Fast and easy access of data in generating reports
- Document. These reports indicate possible courses of action for customers
- Need based customizable reports created automatically in a single document
- Documents indicate possible courses of action for customers
- Fast and easy access of data in generating reports

Robust and rugged design to maximize portables operational life and support inspections / testing for extended period of time (34 hours up to 12 months)

- IP66 rated highly protective case
- Built-in display (no separate laptop) helps in putting system in any environment condition for longer time
- 16 GB data storage sufficient to store PD events continuously for 12 months
- Facility to store data into external storage further enhances data storage capacity

Accurate fault detection improves reliability of HV testing ensuring safe and stable HV apparatus installed in substations

- Outstanding sensitivity and unique accuracy (75 dBm / 5pC) of UHFmeasurements
- In-built sensitivity of -75 dBm enables better PD analysis
- Noise gating by external signal antenna (optional)
- Cross channel coincidence gating

HVDX compatibility saves cost of buying different PD testing equipment for HVDC apparatuses

- In-built LCD screen with touch screen based interface
- Easy to add / modify / delete substrates / site location
- 2D and 3D display of PD signals in multiple formats (Single Cycle, Peak Hold, POW, PRPD and STT)
- Automatic self-check of PDM with faults logged and alarmed
- Trend analysis facility on stored PD data
- State of the art data export function for PD results

Advanced HMI provisions

- System software - LCD display with full touch interface
- Key features:
  - Clean, intuitive interface with QWERTY touch keyboard
  - Display up to 6 UHF channels at once
  - Very live and recorded data in POW, PRPD, STT, history archive and event archive
  - Easy configuration of all parameters
  - Built-in self diagnostics

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QCM-PPDM Portable partial discharge monitor for transformers and GIS

QCM-PPDM Portable partial discharge monitor for transformers and GIS

Handy system for precise assessment of Partial Discharge monitoring during testing, commissioning and periodic inspections

- Full characterisation and localization of partial discharge faults to determine the severity of PD and help in scheduling maintenance.
- Very rapid and easy deployment enables maximum time for condition assessment of assets.
- Robust and rugged design to maximise portable operation life and support inspections / testing for extended period of time (24 hours up to 12 months).
- Accurate fault detection improves reliability of HV testing ensuring safe and stable HV apparatus installed in substations.

Product Summary

Description: A self sufficient and portable PDM system for rapid monitoring and analysis of partial discharge in gas insulated switchgear (GIS) and power transformers. The system is a field deployed, hand-held based unit designed for locating the source of partial discharge during testing, thereby enabling the operator to have confidence in the reliability and continued operation of the plant.

Application: Voltair PD and help in scheduling maintenance.

About Voltair PD

-QCM-PPDM is an easy CBM tool for diagnosing partial discharge with limited or no access to the main PDM infrastructure.

-A self sufficient and portable PDM system for rapid monitoring and analysis of partial discharge in gas insulated switchgear (GIS) and power transformers. The system is a field deployed, hand-held based unit designed for locating the source of partial discharge during testing, thereby enabling the operator to have confidence in the reliability and continued operation of the plant.

-Excellent interference immunity for PD measurement under difficult conditions.
-Unable for HV GIS commissioning tests.
-Retros to most major GIS and transformers.
-HV record mode, versatile sync, super-datareviewmethod.

QCM-PPDM Portable partial discharge monitor for transformers and GIS

- Allows the operator to have confidence in the reliability and continued operation of the plant.
- Extends residual life of aging plant and defers capital costs.
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QCM-PPDM Portable partial discharge monitor for transformers and GIS

TECHNICAL SPECIFICATIONS

Power supply
- Voltage range: 90 to 306 VAC, 47-63 Hz; 189 to 936 VDC external supply
- Supply current: 110 mA @ 230 VAC

EMC (Electromagnetic Compatibility)
- IEC 61180-1
- BS EN61000-4-8, BS EN61000-4-11, BS EN61000-4-18; IEC 60255-5,
- BS EN55022 (:2006); BS EN61000-3-2 to -3-3, BS-EN61000-4-2 to -4-6,
- substations.
- Confirms to relevant specifications for monitoring / control equipment in HV
- BS EN68-2-6, BS EN68-2-27, BS EN68-2-29
- IEEE C37.98 (Seismic Testing of Relays)
- BS EN60068-2-2, BS EN60068-2-1, BS EN60068-2-78
- -25ºC to +75ºC
- -25ºC to +55ºC

Remote/Declarative software
- Operating system: Windows® XP / Windows® 7 compatible
- WiFi transceiver locations 10dB
- Frequency: 1500 MHz, 60 MHz required
- Min size for installation: 20 MB
- System software: MCU (Master Control Unit), VCI (VCI Control Interface) Communication Interface

Performance
- Sampling rate: 15.4 KS/s per channel
- Total of 157.6 KS/s for 16 channels (binomial sampling)
- Data storage: 1 GB
- Color: Full color, true color
- Time synchronization: Yes
- Hard wiring for connection (Probe, Time)

Connect
- Ethernet port - external
- USB: One port to facilitate firmware upgrade, configuration upgrade and manual download of data
- GPRS, WiFi

Specifications
- Ethernet port - external
- USB: One port to facilitate firmware upgrade, configuration upgrade and manual download of data
- GPRS, WiFi

Environmental
- Operating temperature: -25ºC to +75ºC
- Storage temperature: -25ºC to +75ºC
- Humidity: 3% - 95% non-condensing

Enclosure
- Specifications: IEC 60529
- Environmental test compliance: BS EN60068-2-25, BS EN60068-2-27, BS EN60068-2-72
- Electrical test compliance: BS EN60335-1, BS EN60335-2-1, BS EN60335-2-23
- Electric test compliance: BS EN60950-1, BS EN55014-1, BS EN55052, BS EN55015

Dimensions and weight
- Max system weight: 20 kg (44 lb)
- Display: 12” touch screen (360 x 768, 8 bit true color)
- Hard wiring for connection (Probe, Time)
- Power: 70 W
- Dimensions: 110 mA @ 230 VAC
- Weight: 90 to 264 VAC, 47-63 Hz; 40 to 290 VDC universal supply
- Noise: > 6 mm, < 5 pC
- Screen based and gives engineers the tools required for diagnosing partial discharge with limited or no access to the main PDM infrastructure.
- Very rapid and easy deployment enables maximum time for condition assessment of assets
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About QUALITROL®
Established in 1971, with continual improvement at the core of our business, QUALITROL® provides smart utility asset condition monitoring across the globe. We are the largest and most trusted global leader for partial discharge monitoring, asset protection equipment and information products across generation, transmission and distribution. At QUALITROL® we are redefining condition monitoring technology for Electric utilities assets.

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