MPD 800

Ordering information

How to configure the MPD 800 system

MPD 800 entry package

MPD 800 entry package – single-channel only

Hardware

| MCU2 | 1 × MPD 800 acquisition unit and accessories |

Software

| Entry software package | 1 × MPD 800 measurement channel license |

MPD 800 standard packages

MPD 800 standard packages – x channel(s), y unit(s)

Hardware

| MCU2 | MPD 800 acquisition unit(s) and accessories | 1 channel – 1 unit
3 channel – 2 units
3 channel – 3 units
6 channel – 3 units
6 channel – 4 units |

Software

| Standard software package | Measurement channel license |

Measurement extension

Hardware

| MPD 800 acquisition unit(s) and accessories |

Software

| Measurement channel license |

Application upgrade packages

Application-specific software upgrade packages

Software

| MPD 800 transformer package | MPD 800 cable factory testing package (incl. workflow) | MPD 800 on-site cable testing package | MPD 800 motors and generators package | MPD 800 single-phase testing package |

| MPD 800 advanced package |

| MPD 800 multi-application package |

MPD add-ons

Automation / integration interface

Gating extension

1 × MPD 800 acquisition unit and accessories

Gating channel license extension

Individual components

1 × MPD 800 acquisition unit and accessories	1x UHF 800 acquisition unit and accessories
Measurement channel license / Gating channel license extension	UHF measurement channel license (typically incl.)

MPD add-ons

VLF testing

3FREQ

DC testing

Automation / integration interface

MPD 800 multi-application package

Package descriptions

MPD 800 entry package

The MPD entry package is ideal for routine tests in a high-throughput environment. It supports one PD measurement channel for standard compliant pass/fail testing, including the PD inception and extinction voltage. The software package contains digital filters for charge measurements according to IEC or IEEE standards.

The automation interface is offered as an MPD entry package add-on for the integration of the MPD 800 into existing software environments.

The MPD 800 Entry package can be upgraded by software license to the MPD 800 standard package.

Entry Package Key Features
1. Multi-language support
2. Meter view
3. PD assessment
4. Reporting
5. Standard-compliant measurements

MPD 800 standard package

The MPD standard package includes the entry package features and contains in addition a large feature set.

With this package, the user gains from the usability improvements such as the additional and flexible displays and customizable user profiles for simplified PD testing.

The implemented diagrams such as PRPD, Q(U), trending, scope and FFT view offer support for further PD analysis. Also included in the package is simultaneous RIV testing according to NEMA and CISPR standards.

The dataset recording and replay functionality enables the assessment of the measurement after testing. The synchronous multi-channel PD measurement capability reduces the testing time for rotating machines, power transformers or on-site cable testing.

The phase-amplitude gating tool and the optional channel gating tool assist the user to reduce the influence of disturbances.

The MPD 800 standard package can be upgraded by software either with application specific packages or software add-ons.

Standard Package Key Features
1. Includes all entry package features
2. PRPD view
3. Phase-amplitude gating
4. RIV measurement
5. Customizable user profiles
6. Recording and replay
7. Additional PD filters
8. Synchronous multi-channel measurements
9. H(Q), Q(U), trending and system overview diagrams
10. Scope and FFT view
11. Two additional displays for measurement and replay
12. Channel gating (requires additional license)

MPD Suite software upgrade options overview

The MPD Suite software upgrade options are application-focused PD testing packages. All packages include either the 3PARD three-phase filtering tool or the 3FREQ single-phase filtering tool. Both are used to reduce the influence of disturbances or to separate PD sources for detailed analysis.

For greater flexibility during PD testing, additional broadband IEC- and IEEE-compliant filters can be added. With the synchronous RIV and Q_{IEC} support, you can save time during every PD test. For the application of TEV testing as well

as the assessment of motors & generators, the mV-PRPD feature can be added in the MPD Suite software.

All required features for PD testing on cables, such as very broadband filters for localization (sTDR), PD filters to eliminate negative supposition, the TDR localization feature and VLF support, can also be added.

Key Feature Overview	Transformer testing	Motors & generators testing	Single-phase testing	Cable factory testing	Cable on-site testing	Advanced Package	Multi-application
1. 3FREQ	□	□	■	■	■	□	■
2. 3PARD	■	■	–	–	■	■	■
3. Synchronous RIV and Q_{IEC} support	■	–	■	–	–	■	■
4. mV PRPD	–	■	■	–	■	■	■
5. Optical & electrical trigger (e.g. for PDL 650)	■	–	–	–	■	■	■
6. PD cable localization feature set	–	–	–	■	■	■	■
7. Cable factory testing workflow	–	–	–	■	–	–	■

■ included   □ compatible and optional accessory   – not compatible

Get an overview about all MPD Suite software packages

MPD Suite software package	Entry	Standard	Multi-Application	Transformer testing	Motors & generators testing	Single-phase testing	Cable factory testing	Cable on-site testing	Advamced package
MEASUREMENT AND VISUALIZATION									
Multi-language support	■	■	■	■	■	■	■	■	■
Display of ellipse view	■	■	■	■	■	■	■	■	■
Meter display (PD and test voltage value)	■	■	■	■	■	■	■	■	■
PD assessment (inception and extinction voltage as well as pass-fail testing)	■	■	■	■	■	■	■	■	■
Self check	■	■	■	■	■	■	■	■	■
IEC performance check	■	■	■	■	■	■	■	■	■
Q_{IEC} measurement	■	■	■	■	■	■	■	■	■
Entry PD filter set (bandwidth: 100kHz, 300kHz, 1MHz)	■	■	■	■	■	■	■	■	■
Entry measurement frequency range (0Hz - 2.5MHz)	■	■	■	■	■	■	■	■	■
Reporting (settings, diagrams, values, viewer tool with PDF and CSV export)	■	■	■	■	■	■	■	■	■
RIV support	—	■	■	■	■	■	■	■	■
Display of phase-resolved pattern (PRPD)	—	■	■	■	■	■	■	■	■
Multi-channel PRPD view	—	■	■	■	■	■	■	■	■
Additional Standard PD filter set (bandwidth: 4.5kHz, 9kHz, 30kHz, 600kHz, 2MHz)	—	■	■	■	■	■	■	■	■
Full measurement frequency range	—	■	■	■	■	■	■	■	■
Synchronous multi-channel measurement	—	■	■	■	■	■	■	■	■
MPD system overview diagram	—	■	■	■	■	■	■	■	■
Synchronous oscilloscopes and FFT function (incl. PD analysis filters)	—	■	■	■	■	■	■	■	■
H(Q), Q(U)	—	■	■	■	■	■	■	■	■
Additional statistical values	—	■	■	■	■	■	■	■	■
PRPD pre-recording	—	■	■	■	■	■	■	■	■
PRPD dithering	—	■	■	■	■	■	■	■	■
Customizable user profiles (lock, hide and limit features)	—	■	■	■	■	■	■	■	■
Usability enhancements (quick access buttons, customizable and flexible display sizes)	—	■	■	■	■	■	■	■	■
Additional display for parallel view of diagrams	—	■	■	■	■	■	■	■	■
Filtered and unfiltered PRPD view for 3PARD / 3FREQ	—	□	■	■	■	■	■	■	■
Additional replay diagram	—	■	■	■	■	■	■	■	■
Additional IEC-compliant PD filters (Bandwidth: 200kHz, 400kHz, 900kHz)	—	■	■	■	■	■	■	■	■
PRPD mV-View	—	—	■	—	■	■	—	■	■
Filtered and unfiltered PD peak mV value	—	—	■	—	■	■	—	■	■
Synchronous RIV and Q_{IEC} measurement	—	—	■	■	—	■	—	—	■

■ included   □ compatible and optional accessory   — not compatible

MPD Suite software package	Entry	Standard	Multi-Application	Transformer testing	Motors & generators testing	Single-phase testing	Cable factory testing	Cable on-site testing	Advamced package
TRENDING									
Real-time trending (two measured values in one diagram, all channels)	—	—	■	■	■	■	■	■	■
Automatic condition-based PD event triggered trending	—	—	■	■	■	■	■	■	■
EXPORT FUNCTIONALITY									
Save pictures of diagrams (including PRPD)	—	■	■	■	■	■	■	■	■
Recording and replay of datasets[1]	—	■	■	■	■	■	■	■	■
Dataset re-export, Matlab, Scope, FFT, trend, DC[2]	—	■	■	■	■	■	■	■	■
COMPATIBILITY									
MPD 600 stream / dataset support[3]	—	■	■	■	■	■	■	■	■
PD SEPARATION AND NOISE SUPPRESSION									
Phase-amplitude window gating	—	■	■	■	■	■	■	■	■
Digital lowpass gating filters	—	—	■	■	■	■	■	■	■
Gating channel support[1]	—	■	■	■	■	■	■	■	■
Real-time gating channel PRPD comparison	—	■	■	■	■	■	■	■	■
3FREQ	—	□	■	□	□	■	■	■	□
3PARD	—	—	■	■	■	—	—	■	■
MBB1 support	—	■	■	■	■	■	■	■	■
PD CABLE LOCALIZATION									■
Cable fault localization (sTDR)	—	—	■	—	—	—	■	■	■
PD filters to reduce negative superposition	—	—	■	—	—	—	■	■	■
Cable factory testing workflow	—	—	■	—	—	—	■	—	—
Time synced PD scopes and PD scope triggers	—	—	■	■	■	■	■	■	■
TRIGGERING AND SYNCHRONIZATION									■
Optical and electrical trigger (e.g. PDL 650)	—	—	■	■	—	—	—	■	■
GPS synced dataset (post-analysis for localization)	—	■	■	■	■	■	■	■	■
SOFTWARE MODULES / ADD-ONS									■
PD testing at VLF	—	□	■	□	□	□	■	■	□
PD DC measurement	—	□	■	□	□	□	□	□	□
Automation interface (Microsoft COM® and Web)[4]	□	□	□	□	□	□	□	□	□
3FREQ	—	□	■	□	□	■	■	■	□
UHF multi-band	—	□	■	□	□	□	□	□	□

■ included   □ compatible and optional accessory   — not compatible

[1] Included if license has been purchased
[2] Requires "DC testing" add-on
[3] UHF 620 is not supported.
[4] The Automation interface is required for combined use with PTM software. Supports MPD 600/ 800 units; differs to MPD 600 COM Interface

Ordering information

MPD 800 licence overview

Every MPD 800 is equipped with two PD measurement channels. Not every user requires an additional or 2nd PD measurement channel, but all users benefit from its existence.

What is the benefit?
If one PD channel gets damaged during testing, the user can switch to the other PD measurement channel in the MPD Suite software. This will save time during PD testing, and maintenance repair can be planned as a follow-up. A PD measurement license is available to allow the MPD 800 to provide that feature. All available MPD Suite software packages and their licenses are stored on the MCU2 controller, independent of the selected license type.

The MPD 800 provides two license types. PD measurement licenses can be stored on the MPD 800 or MCU2, and the same applies to the gating license.

Default License
The default license is a good choice for users with one MPD 800 system. The PD measurement channel license is stored on the MCU2.

Combine two sets of MPD 800 systems!

MML License (Multi-MPD License)
This license may be a better choice for customers with more than one MPD 800 system. The MML license is required when the user wants to share the MPD 800 units of different systems to create one large system and use all PD channels on one MCU2 controller. The MML license is ideal for pooling multiple MPD 800 units of more than one MPD System (multiple MCU2s). The following example illustrates the combination of MML PD measurement licenses.

Measurement channel license
Measurement channel license

Measurement channel license

Measurement channel license
Measurement channel license

Measurement channel license

Measurement channel license
Measurement channel license

Measurement channel license

Measurement channel license
Measurement channel license

Measurement channel license
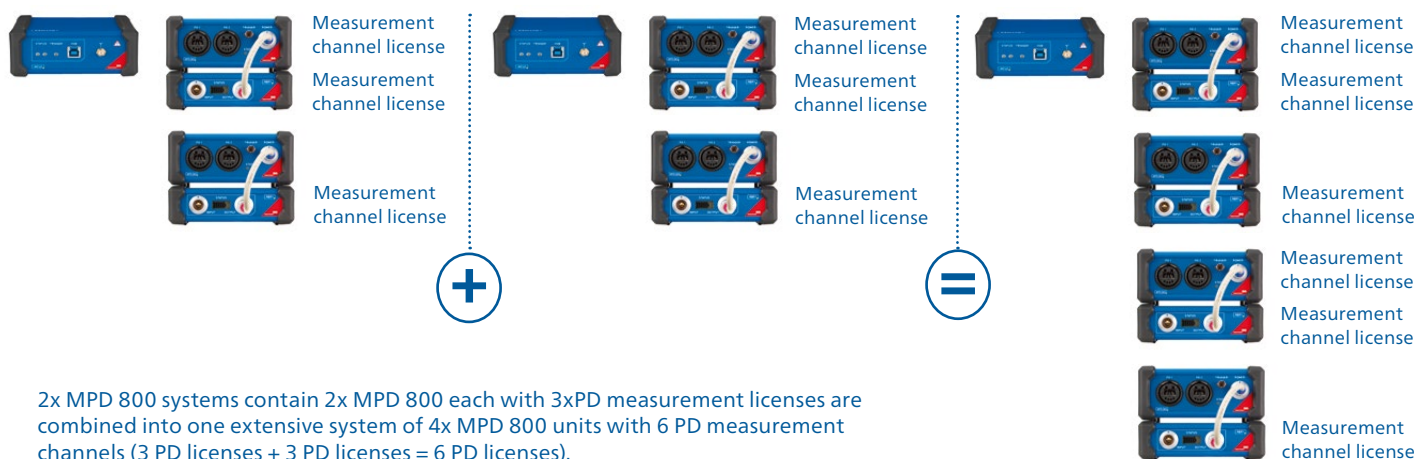
2x MPD 800 systems contain 2x MPD 800 each with 3xPD measurement licenses are combined into one extensive system of 4x MPD 800 units with 6 PD measurement channels (3 PD licenses + 3 PD licenses = 6 PD licenses).

Simple PD measurement channel upgrades
A new license file is sent to the user. The MCU2 is connected to the computer.

The license file upload is available from the start page of the MPD Suite software.

Simple PD measurement channel upgrades
A new license file is sent to the user. The MCU2 and MPD 800 units are connected to the computer. The license file upload is available from the start page of the MPD Suite software.

Why can't I use the default license type in this case?
This is impossible with the default license, as the PD measurement license is stored on the MCU2. Two MCU2s cannot exchange and swap their license files.

Combination of both license types
The combination of both license types is legitimate. All existing licenses are pooled between the connected MPD 800 units and MCU2.

Upgrade path
For both license types, additional PD measurement licenses are available. As the MPD 800 is equipped with two physical PD channels, a maximum of two PD measurement licenses can be stored per unit. The number of PD measurement licenses stored on the MCU2 is not limited.

MPD 800 full-service calibration packages

OMICRON Calibrations offers IEC 17025 calibrations for the MPD 800 and MPD 600 systems (incl. CPL) and charge calibrators CAL 542 in its accredited IEC 17025 calibration laboratory. New MPD 800 devices can be delivered with IEC 17025 calibrations and the OMICRON factory calibration.

	Description	Ordering No.
Full-Service IEC 17025 calibration for existing MPD 800 Systems	Includes initial IEC 17025 calibration (AsFound), hardware and software updates, adjustment and factory calibration, a final IEC 17025 calibration (AsLeft), and return shipment to the customer.	P0010076
IEC 17025 calibration for a new MPD 800 System	Additional IEC 17025 accredited calibration for a new device.	P0010077

CAL 542 full-service calibration packages

OMICRON Calibrations offers IEC 17025 calibrations for new and existing charge calibrators CAL 542 in its accredited IEC 17025 calibration laboratory.

	Description	Ordering No.
Full Service IEC 17025 Calibration for an existing CAL 542x	Includes initial IEC 17025 calibration (AsFound), hardware and software updates, adjustment and factory calibration, a final IEC 17025 calibration (AsLeft) and return shipment to customer.	P0006030
Additional IEC 17025 Calibration for a new CAL 542x	Additional IEC 17025 accredited calibration for a new device.	P0006016

MPD 800 entry package

The MPD 800 entry package includes one MPD 800 acquistion unit, the rechargeable RBP1 battery pack, the fiber-optical controller MCU2, and all required accessories such as CPL, cables, adapters and clamps. It also includes the entry software package of the MPD Suite software.

	Description	Ordering No.
MPD 800 entry package	PD entry package to perform routine tests in a high-throughput environment and for fixed installations. The package is limited to one PD measurement channel. For additional channels, upgrade to the standard software package of the MPD Suite software.	P0000904

MPD 800 standard packages

All MPD 800 standard packages include the desired number of MPD 800 acquistion units, the rechargeable RBP1 battery pack, the fiber-optical controller MCU2, and all required accessories such as CPLs, cables, adapters and clamps. It also includes the standard software package of the MPD Suite software.

| CPL1/2 | MPD 800 (1 channel, 1 unit) + RBP1 | Fiber optic cable | MCU2 | Connectors, adapters and clamps |

	Description	Ordering No. License type default or MML:
MPD 800 standard package (1 channel, 1 unit)	General package for single-phase PD testing, using one channel and one MPD 800 device. It is applicable on all assets and applications, and provides a comprehensive diagnostic tool set for simplified, customized testing, analysis and reporting.	P0000906 / P0000938
MPD 800 standard package (3 channels, 2 units)	Typical package for three-phase PD testing, using three channels and two MPD 800 devices. It is ideal for motors, generators and large transformers, as well as for on-site cable PD testing.	P0000908 / P0001152
MPD 800 standard package (3 channels, 3 units)	Enhanced package for three-phase PD testing, using three channels and three MPD 800 devices. It is ideal for motors, generators and transformers, as well as for on-site cable PD testing.	P0000909 / P0001153
MPD 800 standard package (6 channels, 3 units)	Typical package for three-phase PD testing, using six channels and three MPD 800 devices. This is ideal for transformers or on-site cable PD testing.	P0000910 / P0001198
MPD 800 standard package (6 channels, 4 units)	Enhanced package for three-phase PD testing, using six channels and four MPD 800 devices. This is ideal for large transformers or on-site cable PD testing.	P0000914 / P0001199

MPD 800 special single-mode version

For on-site testing of power cables with large distances between the joints, the special MPD 800 version with single-mode (SiMO) fiber optical modules was developed to cover distances of at least 15km or longer, depending on fiber optical cable specifications.

	Description	Ordering No.
MPD 800 Special SiMo Package (1 channel, 1 unit)	This is a special MPD 800 system package, with one single-mode MPD 800 unit (including 1x PD measurement license, type MML), 1x single-mode MCU2 controller (2x LC ports), 10m of single-mode cable for system check, and a standard software license for MPD Suite.	P0009334
MPD 800 Special SiMo Extension Package	MPD 800 Special Version of Measurement Extension Package with Single Mode (SiMo) fiber optical module, incl. 1x PD measurement license (type MML), 1x RBP1,10m of fiber optic cable, other cable and connectors; without external CPL1/2.	P0009335
MPD 800 Special SiMo Extension Bundle	A bundle of 5x MPD 800 extension packages with special single-mode fiber optical modules.	P0009336

MPD 800 units with single-mode fiber optical modules are not compatible with standard MPD 800 multi-mode devices.

MPD 800 extension packages

	Description	Ordering No. License type default or MML:
MPD 800 measurement extension package	Measurement extension package to expand your existing MPD 800 system by one additional PD measurement channel. It includes 1 × MPD 800 unit, 1 × measurement channel license and accessories.	P0001098 / P0001114
MPD 800 gating extension package	Gating extension package to enhance disturbance/noise suppression in noisy environments for your MPD system. It includes 1 × MPD 800 unit, 1 × gating channel license and accessories.	P0000956 / P0001117
MPD 800 unit	1 × MPD 800 unit to expand your existing MPD 800 system by one additional MPD 800 unit. A measurement channel license must be ordered separately.	P0000916

MPD 600 compatibility and integration into MPD 800 system

	Description	Ordering No.
MPD 600 compatibility upgrade option	This upgrade option allows you to integrate and continue to use your existing MPD 600 PD measurement devices with the new MPD 800 system. The MPD Suite software supports the replay of MPD 600 stream files.	P0000035

Ordering information

MPD Suite software application upgrade options

The MPD Suite software upgrade options are application-focused PD testing packages.

	Description	**Ordering No.**
MPD 800 entry to standard upgrade option	Software license upgrade to benefit from the standard feature set of the MPD 800 software for general single-phase PD testing.	P0000003 / P0000172
MPD 800 standard to multi-application upgrade option	Software license upgrade to benefit from the combined feature set for multi-application PD testing, including 3PARD, 3FREQ, PD localization and the VLF testing add-on. It includes the cable factory testing workflow.	P0000028
MPD 800 standard to transformer testing upgrade option	Software license upgrade to get all the features needed to perform multi-phase PD measurements on power transformers, including 3PARD and the synchroneous Radio Influence Voltage (RIV) and charge measurement functionality.	P0000022
MPD 800 standard to motors & generators testing upgrade option	Software license upgrade to get all the features needed to perform multi-phase PD measurements on motors & generators, including 3PARD.	P0000023
MPD 800 standard to single-phase testing upgrade option	Software license upgrade to perform single-phase PD measurements on various high-voltage assets and components, such as instrument transformers, bushings, capactiors, insulators and switchgear. It includes 3FREQ and the synchroneous RIV and charge measurement functionality.	P0000024
MPD 800 standard to cable factory testing upgrade option	Software license upgrade to get all the features needed to perform PD cable localization with dedicated filters, VLF testing support and 3FREQ. It includes the cable factory testing workflow.	P0000025
MPD 800 standard to cable on-site testing upgrade option	Software license upgrade to get all the features needed to perform on-site PD testing and commissioning at multiple measurement points, such as cable joints and terminations. It includes 3PARD, cable PD localization tools with dedicated filters and VLF testing support…	P0000026
Upgrade from MPD 800 standard to MPD 800 advanced package	Software license upgrade to the MPD 800 "Advanced" package with a range of functions comparable to the MPD 600 "Advanced" package. It contains, 3PARD, the functionality for cable fault location, as well as the synchronous measurement of RIV and charge. Not included are 3FREQ, DC, PSA, DyNG and VLF support.	P0000027

MPD Suite software upgrade options

Software license upgrade options are available for you to benefit from the multi-application feature set of the MPD Suite software, including 3PARD, 3FREQ, PD localization, and the add-on "VLF testing" module.

	Ordering No.
MPD 800 transformer testing to multi-application upgrade option	P0000030
MPD 800 motors & generators testing to multi-application upgrade option	P0000031
MPD 800 single-phase testing to multi-application upgrade option	P0000032
MPD 800 cable factory testing to multi-application upgrade option	P0000033
MPD 800 cable on-site testing to multi-application upgrade option	P0000034
MPD 800 advanced package to the MPD 800 multi-application package	P0000029

MPD Suite software add-ons

These MPD 800 software add-ons are dedicated application packages. They can be added to the MPD 800 standard license and software upgrade options.

	Description	Ordering No.
MPD 800 "DC testing" add-on	Software license upgrade to perform PD testing in HVDC applications.	P0007902
MPD 800 "Automation/Integration interface" add-on	Software license upgrade to enable automation of the MPD system in existing test environments. The Automation/integration interface is required for combined use with PTM software.	P0000039
MPD 800 "3FREQ" add-on	Software license upgrade to enable 3FREQ. It is mainly used for single-phase filtering of PD for PD cluster and disturbance separation.	P0000037
MPD 800 "VLF testing" add-on	Software license upgrade to perform PD testing in VLF applications.	P0000197

MPD 800 license extensions

	Description	Ordering No. License type default or MML:
MPD 800 PD measurement channel license extension	Software license upgrade to activate one additional PD channel for measurements.	P0000020 / P0000189
MPD 800 gating channel license extension	Software license upgrade to perform channel gating on one additional PD channel for disturbance suppression in noisy environments.	P0000021 / P0000190
MPD 800 gating to measurement upgrade license	Software license upgrade from MPD 800 Gating channel license to Measurement channel license	P0000235 / P0000236

Ordering information

MPD 800 transport accessories

		Description	Ordering No.
MPC1		The MPC1 is the universal MPD 800 protection case for outdoor usage and rough industrial environments. It offers several configuration options for flexible usage.	B1440503
MTC1		The MTC1 is universal MPD transport case and can contain up to a 5 MPD 800 units, one UHF 800, one RIV and one IEC calibrator, a controller and batteries. Alternatively, the MTC1 can include a 3-unit MPD 800 system, 3 CPLs, one UHF 800, a controller, two calibrators (IEC, RIV) and batteries.	B1506601
MTC2		The MTC2 is the MPD flight case. It can contain up to 3 unit MPD 800 units, an UHF 800, one calibrator, MCU2 controller and batteries.	B1566401

MPD 800 extensions and accessories for UHF application

		Description	Ordering No.
UHF 800		The UHF 800 is an ideal PD measurement solution for measuring power transformers and gas-insulated substations (GIS). It measures in the very high frequency (VHF) and ultra-high frequency (UHF) ranges.	P0007145 : MML_20_RF
UPG 620		The UPG 620 generates very fast slope pulses and is mainly used to verify the measurement circuit in the UHF range.	P0001354
UVS 610		The UHF valve sensor allows PD measurements in high-frequency ranges in power transformers with liquid insulation. It is inserted through the oil drain valve (DN 50 and DN 80).	P0006444
UHF Multiband software upgrade		UHF Multiband Software Module for *Spectrum View* and *Medium Band Mode*	P0007148

Feature overview	Standard	with UHF Multiband
1. Wide input frequency range (100 MHz … 2 GHz)	■	■
2. Wideband Mode (Broadband detector with 2 GHz)	■	■
3. PRPD Sync on test voltage frequency via UHF or SYNC connector	■	■
4. Optical trigger output (e.g. for PDL 650)	–	■
5. Medium Band Mode and Narrow Band Mode (Detector with tunable 80 MHz or bandwidths down to 1MHz)	–	■
6. UHF Spectrum with UHF Sweep over the full frequency range	–	■

■ included   – not included

Fiber optical cables

		Description	Ordering No.
Duplex fiber optical cables	Standard duplex fiber optic cable Rugged duplex fiber optic cable	Five different types of fiber optical cables are offered for fixed installations with a small head (slim), a easy to use standard cable and a rugged version for on-site testing and rough environments. > Standard duplex fiber optical cable, 3 m / 10 ft > Rugged duplex fiber optical cable 5 m / 16 ft > Standard duplex fiber optical cable, 20 m / 65 ft > Slim Duplex fiber optical cable, 20 m / 65 ft > Rugged duplex fiber optical cable 50 m / 165 ft (drum)	E1869700 E1869800 E1785200 E1915000 E1869900
LC FO extension unit		Neutrik Adapter OpticalCON Duo	E1506900

Rechargeable external battery
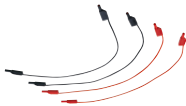
		Description	Ordering No.
RBP1		The RBP1 is the external rechargeable battery which supplies power to the MPD 800 or UHF 800 units. > RBP1 Package (battery, charger, cable) > RBP1 Battery cable > RBP1 External (battery, cable, without charger) > Standard 24 W battery charger	P0006457 B1048901 P0006456 B1116300

MPD 800 accessories

	Description	Ordering No.
BTA kits	The following Bushing Tap Adapter (BTA) kits consist of a BTA adapter that connects to a specific bushing measurement tap and includes a gas discharge tube: > BTA3 kit > BTA6 kit > BTA7 kit > BTA9 kit > BTA14 kit	P0006468 P0006469 P0006470 P0006471 P0006472
CAL 542	The CAL 542 charge calibrator is used to inject a defined charge to verify the measurement circuit. > Version A (0.1 pC … 10 pC) > Version B (1 pC … 100 pC) > Version C (10 pC … 1 000 pC) > Version D (0.1 nC … 10 nC)	P0005901 P0005902 P0005903 P0005904
CPL1	The CPL1 extends the test current range up to 7A and acts as additional protection device for the MPD 800. > CPL1 Option IEC > CPL1 Option NEMA/ANSI/IEC/CISPR > CPL1 Option CISPR/IEC	P0000058 P0000059 P0000060
CPL2	The CPL2 is designed for easy integration of the MPD 800 into existing high-voltage systems whenever a coupling capacitor is used for PD testing and to measure the voltage to control the high-voltage source. The different CPL types are necessary for standard-compliant measurements. > CPL2 Option IEC > CPL2 Option NEMA/ANSI/IEC/CISPR > CPL2 Option CISPR/IEC	P0000061 P0000062 P0000063
GPS antenna	GPS antenna package for the MCU2. This package includes a GPS antenna and a 20 m (65 ft) connection cable for use with the MCU2.	P0001348
MBB1	The MBB1 balanced measurement bridge is recommended by IEC 60270 and enables you to perform differential PD measurements in test environments with heavy interference. > MBB1 for MPD 800 (requires standard software) > MBB1 for MPD 800 (requires standard software; incl. CPL1, CAL 542D)	P0000649 P0000650
MCC	The MCC coupling capacitor connects the MPD system to the high-voltage test object. Different MCC coupling capacitors are available for various voltage levels. > MCC 117: 17.5 kV (Option D: 2.2 nF) > MCC 124: 24 kV (Option D: 1.1 nF) > MCC 210L: 100 kV, 1nF (incl. corona ring)	P0006465 P0006466 P0006442
MCT 120	The MCT 120 is a high-frequency current transformer (HFCT), which picks up PD signals in moderate heights and at a safe distance from high-voltage.	P0006458
RIV1	The RIV1 calibrator enables the reliable calibration for PD measurement based on Radio Influence Voltage (RIV) according to NEMA and CISPR standards. > RIV1-NEMA: Output impedance = < 2 Ω > RIV1-CISPR: Output impedance = 20 kΩ	P0005905 P0005906

		Description	Ordering No.
V-to-AC adapter		The V-to-AC adapter enables the compatability of an CPL 542 or CPL 543 to new MPD 800 units.	B1386001
TEV1		The lightweight TEV1 sensor is used for PD detection during online testing, primarily on medium-voltage switchgear as well as oil-filled transformers and cable terminations.	P0009962

Connectors, adapters and clamps

|	Description	Ordering No.
	Crocodile clamps for connection of the banana plugs, 4mm/0.16in (2× RED and 2× BLACK)	B0347200
	Coax adapter BNC male to 2x 4mm/0.16in female 180°. (for connections with BNC-sockets, e.g., MPD 800, CAL 542, RIV1, UPG 620)	E0913900
	Coax adapter BNC female to 2x 4mm/0.16in male 180° (connected to BNC-cable and test lead E0542901, E0542901)	E0914000
	Coax adapter BNC female to 2x 4mm/0.16in female 180° (connected to BNC-cable)	E1627000
	Test lead 5cm/1.96in BLACK 2.5mm/0.098in, 2x K-414/XZGL (for CPL1 or CPL2)	E0542901
	Test lead 5cm/1.96in RED 2.5mm/0.098in, 2x XK-414/XZGL (for CPL1 or CPL2)	E0542801
	Coax RG58 BNC male BNC male BLACK 0.5m/1.64ft (for short connections of MPD 800 with CPL1 or CPL2)	E0449300
	Coax RG58 BNC male BNC male BLACK 2.0m/6.56ft (for connection of MPD 800 with MCT 120, MCC or TEV1)	E1991700
	Test lead 0.5m/1.64ft BLACK 1p 2.5mm/0.098in, 2x Si/Si 4mm/0.16in plugs	E1032700
	Test lead 0.5m/1.64ft RED 1p 2.5mm/0.098in, 2x Si/Si 4mm/0.16in plugs	E0362800
	Aluminum braids roll (L: 5.0m/16.40ft, B: 2.5mm/0.098in)	P0006308
	Flange-screw clamp for aluminum braid	B0475606
	OMICRON velcro tape 630mm/2.06ft (to tie together MPD 800, UHF 800 and RBP1)	E1425300

We create customer value through …

Quality

You can rely on the highest safety and security standards

Superior reliability with up to

72
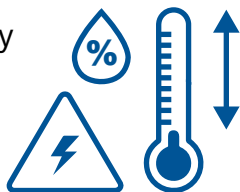
hours burn-in tests before delivery

100%

routine testing for all test set components

ISO 9001
TÜV & EMAS
ISO 14001
OHSAS 18001

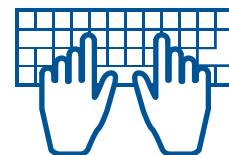Compliance with international standards

Innovation

I need…

… a product portfolio tailored to my needs

More than

200

developers
keep our solutions up-to-date

More than

15%

of our annual sales is reinvested in research and development

Save up to

70%

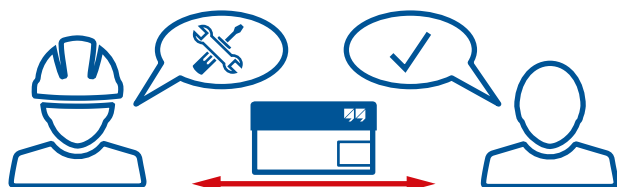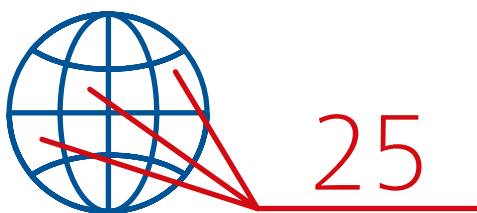testing time through templates, and automation

Support

24 7

Professional technical support at any time
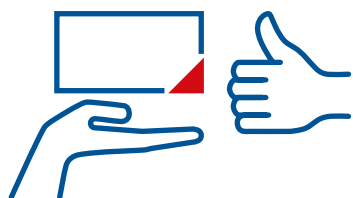
Loaner devices help to reduce downtime

Cost-effective and straight-forward repair and calibration

25

offices worldwide for local contact and support
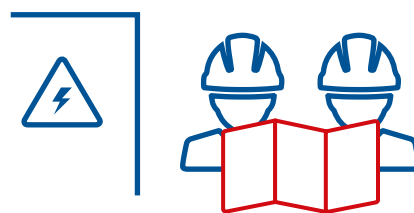
Knowledge

More than

300

Academy and numerous hands-on trainings per year

Frequently OMICRON hosted user meetings, seminars and conferences

Free access

to thousands of technical papers and application notes

Extensive expertise in consulting, testing and diagnostics

OMICRON is an international company that works passionately on ideas for making electric power systems safe and reliable. Our pioneering solutions are designed to meet our industry's current and future challenges. We always go the extra mile to empower our customers: we react to their needs, provide extraordinary local support, and share our expertise.

Within the OMICRON group, we research and develop innovative technologies for all fields in electric power systems. When it comes to electrical testing for medium- and high-voltage equipment, protection testing, digital substation testing solutions, and cybersecurity solutions, customers all over the world trust in the accuracy, speed, and quality of our user-friendly solutions.

Founded in 1984, OMICRON draws on their decades of profound expertise in the field of electric power engineering. A dedicated team of more than 900 employees provides solutions with 24/7 support at 25 locations worldwide and serves customers in more than 160 countries.

The following publications provide more information about MPD 800:

• MPD 800 Universal Partial Discharge and Analysis System

• MPD 800 Technical Data

• MPD 800 Upgrade Information for MPD 600 Users

For more information, additional literature, and detailed contact information of our worldwide offices please visit our website.

www.omicronenergy.com