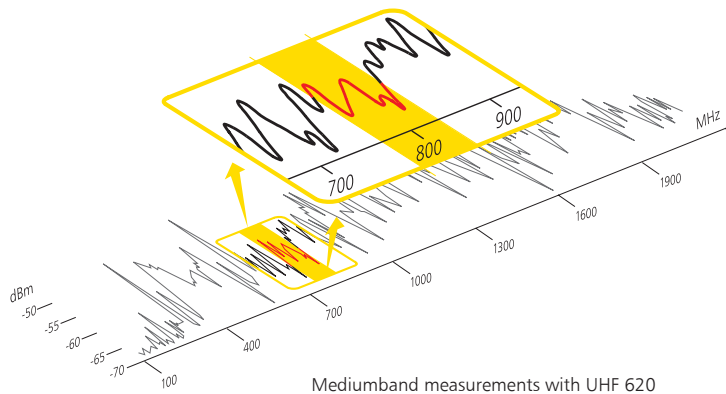


UHF 620 Bandwidth Converter

Accessory to MPD 600



The UHF 620 extends the measuring frequency range of the MPD 600 system up to the VHF and UHF frequency range. Partial discharge (PD) can be measured in an additional frequency range of 100 to 2,000 MHz. All PD data will be converted simultaneously into a bandwidth which can be processed by the MPD 600.

Combining UHF 620 and MPD 600 results in a precise narrowband measuring system for different frequency bandwidths:

- > Narrowband measurements up to 1.5 MHz
- > Mediumband measurements at 70 MHz
- > Broadband measurements at 1.9 GHz

As the center frequency is freely selectable, it is possible to choose a frequency range with less disturbances and a higher signal-to-noise ratio.

The UHF 620 is ideal for measuring power transformers and gas-insulated substations (GIS). This unconventional VHF / UHF partial discharge measuring method can be used for commissioning tests as well as for on-site and online diagnostics.

Furthermore, the UHF 620 can be connected to different UHF sensors, such as power transformer measurements with OMICRON's UVS 610, or to pre-mounted sensors in GIS.

Technical data

UHF input range f_c	100 to 2,000 MHz (adjustable in 500 kHz steps)
Measuring bandwidth Δf	Narrowband: Up to 1.5 MHz Mediumband: At 70 MHz Broadband: At 1.9 GHz
Impedance UHF input	50 Ω (N-type input jack)
RF pre-amplifier	20 dB amplifier, switchable
Synchronization via UHF sensor	10 to 100 Hz (test voltage frequency)
Power supply	Via AUX-connector of MPD 600 and battery pack MPP 600
Weight	700 g / 1.5 lbs
Dimensions (W x H x D)	110 x 44 x 190 mm / 4.3 x 1.7 x 7.5 in
Operating temperature	0 to 55 °C / 35 to 130 °F
Relative humidity	5 to 100 %, non-condensing
Order number	VEHZ4137

OMICRON is an international company serving the electrical power industry with innovative testing and diagnostic solutions. The application of OMICRON products allows users to assess the condition of the primary and secondary equipment on their systems with complete confidence. Services offered in the area of consulting, commissioning, testing, diagnosis, and training make the product range complete.

Customers in more than 140 countries rely on the company's ability to supply leading edge technology of excellent quality. Broad application knowledge and extraordinary customer support provided by offices in North America, Europe, South and East Asia, Australia, and the Middle East, together with a worldwide network of distributors and representatives, make the company a market leader in its sector.

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