Partial Discharge Tester
PD 4020L

The PD 4020L partial discharge tester helps to test insulation materials and insulation systems for their insulation strength.
Whether testing individual insulating materials, such as plastics or paints, or testing components from the drive train, such as stators or connectors, whether in the laboratory or in production, whether in small or large series:
The PD 4020L is suitable for all environments and requirements and delivers the most sensitive measurement results with precise repeatability!

The partial discharges, excited by an external hipot or surge tester, can be detected with active Measurement Technology both by radio and inductively. Radio Measurement Technology is the first choice for open test objects such as a stator. For closed or shielded DUTs, such as inverters or motors, partial discharges can be measured by inductive measurement via the connection cables of the DUT.

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		Rack device
Input HF	Channel / Sensor A & B	TNC Socket 50 Ω impendence ± 1.5 V peak 24 V Phantom Power Supply
Measurement HF	Frequency Range Sensitivity (approx.) Damping in the Stop Band Sampling Rate Resolution Memory	≤ 70 MHz -90 dBm - -30 dBm 120 dB 250 Mhz 12 Bit / 4 ns 256 MS
Input HV	Voltage Measurement Input Impedance	5500 VAC - 6000 VDC / 100 Hz 2 x 90 MΩ against earth, potential-free - 18 kV peak
Input HV Probe	Voltage Measurement	For connecting an external HV probe ± 8 V peak
External Trigger		0 V - 5 V, TTL signal
Automatic Evaluation		Limit value partial discharge PDIV inception voltage PDEV extinction voltage
General Data	PC Software Software Interface Mains Supply	DAT DLL 90 V - 250 V I 50 Hz / 60 Hz
Interfaces	Computer Interfaces	Ethernet / LAN
Operation		Remote only - TCP/IP
Dimensions and Weight (approx.)	Height Width Depth Weight	89 mm I 3.5 in 483 mm I 19.0 in 482 mm I 19.0 in 12 kg I 26.5 lbs

Subject to change and error. Please note: that in Europe, we use a comma as the separator, while in the USA, a period is used.