



GTU200 PARTIAL DISCHARGE FILTER UNIT

PARTIAL DISCHARGE TESTING WITH HIGH SENSITIVITY

The GTU200 is an optimized measuring unit for detecting partial discharges with an oscilloscope. Due to its very sensitive PD detection in the UHF range and high interference suppression in the low frequency range, measurements with different test voltage shapes are possible.

Various sensors for PD detection can be connected to the input. Solfas HF current sensors are recommended, offering the advantages of high sensitivity and isolation from the test voltage. PD measurements with the GTU200 and pulse shaped test voltages offer completely new possibilities for electric motor testing. It is now possible to test the isolation between phases and single turns. This enables new non-destructive tests for more reliable products.

APPLICATIONS

- Electrical motor & stator testing
- Research and development
- Test of wirewound products such as chokes, transformers, coils

KEY FEATURES

- Measurement compliant to IEC 60034-18-41 and IEC/TS 61934
- Ideal for PD detection with oscilloscope
- Isolated coupling to test object for safe operation

KEY BENEFITS

- Highest sensitivity measurement
- Allows pulse shaped voltages
- Easy-to-use and compact size
- Non-destructive insulation tests
- Less failures, lower service costs, quality improvement

GTU200

Technical Specifications

HF Input	BNC 50Ω
HF Input level max.	1V/+13dBm
HF Output	BNC 50Ω
HF Output level max.	+10dBm
Linear input range	-80dBm...-30dBm
Gain	40dB ± 1.5dB
Frequency range	210 ... 480MHz (-3dB)
Attenuation in stopband	≥ 50dB (< 120MHz, >710MHz)
Power supply	5...24VDC / via USB
AC Power adapter Input	80...240VAC
Dimensions (WxHxD)	115x50x185mm
Weight	562g



Ordering Informations

Description	Order number
GTU200 Partial Discharge Filter Unit	GTU200
Scope of delivery	
<ul style="list-style-type: none">• Partial Discharge Filter Unit• High-Quality BNC Cable 1m• USB power supply cable• AC Power adapter• Instruction manual• Measurement Protocol	
Optional Accessories	
HF Current Sensor for cables up to 25mm diameter	GTU-Z01
AC Power adapter	GTU-Z02
High-Quality BNC Cable 1m	GTU-BNC-1M
High-Quality BNC Cable 2m	GTU-BNC-2M
Multi-Port Coupling Unit	GTU-Z05
Carrying Case	GTU-CAS
GTU860E Partial Discharge Tester with Ethernet	GTU860E
GPDC10 Partial Discharge Calibrator 1...100pC	GPDC10-A
GPDC10 Partial Discharge Calibrator 10...1000pC	GPDC10-B

SOLFAS TECHNOLOGIE GMBH

We specialize in the development and distribution of test systems, power supplies and measuring instruments. Experts in electrical testing and automation, our company offers a broad range of high-performance full-service testing solutions and measuring instruments. We provide clients in the automotive, aerospace, energy and traditional industry sectors with the equipment they need to test high power components, such as chokes, transformers and electric motors.