

4 Channel Online Partial Discharge Monitoring System (Wallmount Enclosure)



Key Features _____

- High Resolution PRPD Pattern
- Noise Elimination through Gating Channel and variable Frequency Range
- Designed for complete Commissioning without additional Hardware
- Local True Color Touch LCD

Applications _____

- Turbo Generators
- Hydro Generators
- Large Industrial Motors
- Windmills

TMS-5041W

General Description _____

The **TMS-5041** is a four channel partial discharge trending system with a true color LCD display showing all the necessary information for the commissioning and surveillance of high voltage rotating machines. The noise gating channel and variable Filters allows to separate noise from the pd signals. The **TMS-5041** shows actual partial discharge level for every individual channel (phase) on a bargraph, partial discharge activity in oscilloscope mode as well as color phase resolved partial discharge pattern. The touch functionality of the LCD display allows to parametrise, store and visualise the partial discharge signals without the use of any computer. Optionally a computer can be connected to store actual configuration and partial discharge results. Eight optional 4-20mA input channels allows to record machine operation conditions as MW, MVA, temperatures etc. together with the partial discharge signals. The optional Modbus RTU interface allows an easy integration into the existing SCADA/DCS system. Individual 4-20mA and relais outputs per channel are available. This make the **TMS-5041** the ideal cost effective partial discharge monitoring system for permanent installation.

Ordering Information _____

Order Code: 17.5041.AAA.BBB.CCC.DDD

AAA: Enclosure type:

- 065: IP65 Protected Wallmount Enclosure
- 019: 19" Rackmount Enclosure (3HU)
- 035: DIN Rail mount (35mm)

BBB: Power Supply:

- 264: 85-264VAC, 50/60Hz or 90-375VDC
- 024: 18-36VDC
- 048: 36-72VDC

CCC: Communication Interface

- 485: Modbus RTU Interface (optional)

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Technical Data

TMS-5041W

Data Acquisition of Partial Discharge Channels

PD Input Channels (Multiplexed + Gating): 4+1	Acquisition Time Intervall:	1 to 600 sec/ch
Frequency Range *1		
Selectable LP Filter: 40KHz to 5MHz	Sensor Compatibility:	
Selectable HP Filter: 800kHz to 300MHz	Coupling Capacitors:	80pF - 10nF ²⁾
Signal Gain (HW): 40dB	RF CT's:	yes ²⁾

1) Frequency Range of complete measurement chain depends on selected PD sensor

2) Sensitivity of measurement circuit depends on selected sensor type

Voltage References

Reference from Coupler 10mV to 30VACrms	External Voltage Reference:	max 260VAC
Frequency Range: 0.1 to 200Hz	From Power Supply:	max 260VAC ²⁾

2) only available on AC Power Supply Version

Interfaces

Relais Contacts NO/NC System OK+CH 1-4)	Modbus RTU::	RS-485
Analogue Output: 4x 4-20mA (1 per Ch)	USB 2.0:	PC communication
Analogue Input (OP Parameters): 8x4-20mA		

Display

Dimension: 4.3"	Color Depth:	24bit
Resolution: 480x272pxl	Touch:	Resistive

Local Results

Phase Resolved Partial Discharge Pattern:	Bargraph:	4 (1 per Channel)
Resolution: 256x256	Trend:	max. 1 Year
Color: black & white	Event Logging:	yes

Mechanical Dimensions

Dimensions (L x W x D)	Protection Class:	IP65
Weight:		

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