

## **4 Channel Portable Online Partial Discharge Analyzer**



### **Key Features** \_\_\_\_\_

- High Resolution PRPD Pattern
- Noise Elimination through Gating Channel and variable Frequency Range
- Local True Color Touch LCD
- 4 Channel Simultan Data Acquisition
- User friendly Software

### **Applications** \_\_\_\_\_

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

**TMS-6141**

### **General Description** \_\_\_\_\_

The **TMS-6141** is a four channel portable partial discharge analyzer with a true color LCD display showing all the necessary information for the analysis of high voltage rotating machines. The noise gating channel and variable Filters allows to separate noise from the pd signals. The **TMS-6141** shows in realtime actual pd activity in oscilloscope mode as well as color phase resolved partial discharge patterns for every individual channel (phase). The touch functionality of the color LCD display allows to operate, parametrise and visualise the partial discharge signals without the use of any computer. Optionally a computer can be connected to show and store real time partial discharge results. This make the **TMS-6141** the ideal portable online partial discharge analyzer for rotating machines.

### **Ordering Information** \_\_\_\_\_

Order Code: 17.6141.000.000.000.000

# 4 Channel Portable Online Partial Discharge Analyzer



## Technical Data

TMS-6141

### Data Acquisition of Partial Discharge Channels

PD Input Channels (simultaneous):	4	Signal Gain (HW):	40dB
Frequency Range			
Selectable LP Filter:	40KHz to 5MHz	Pulse deadtime:	20us
Selectable HP Filter:	800kHz to 300MHz	A/D Resolution:	16bit
Signal Gain (HW):	40dB		
		Acquisition Time Intervall:	1 to 600 sec/ch
Gating Channel:	1		
Frequency Range		Sensor Compatibility:	
Selectable LP Filter:	40KHz to 5MHz	Coupling Capacitors:	80pF - 10nF <sup>1)</sup>
Selectable HP Filter:	800kHz to 300MHz	RF CT's:	yes <sup>1)</sup>

<sup>1)</sup> Effective Frequency Range of PD Channel depends on selected sensor Type

### Voltage References

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

### Interfaces

Ethernet: 100Mbit

### Display

Dimension:	5.7"	Color Depth:	24bit
Resolution:	640 x 480pxl	Touch:	Resistive

### Local Results

Phase Resolved Partial Discharge Pattern:	Pulse Height Distribution
Resolution & Color: 256x256 - 16bit Color	Oscilloscope Mode

### Mechanical Dimensions

Dimensions (L x W x D)	220 x 160 x 80mm	Protection Class:	IP55
Weight:	3.5kg		

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