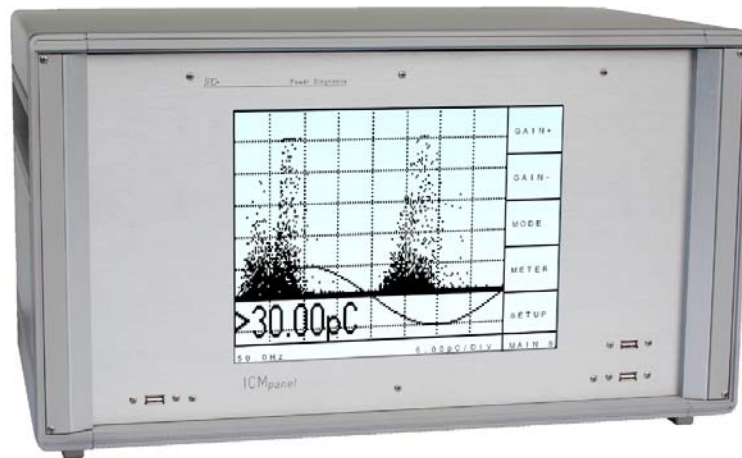
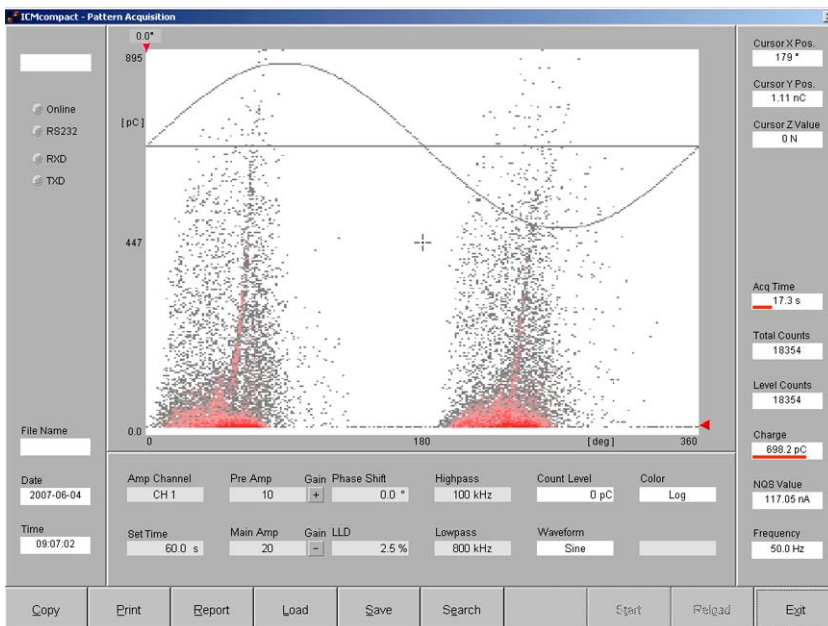
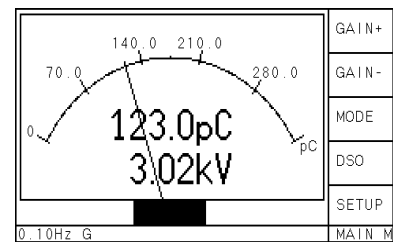


ICMpanel



Partial discharge (PD) measurements are a proven method for effective, nondestructive evaluation of electrical insulation. The Power Diagnostix ICMpanel provides a simple on-screen menus in an embedded touch panel LCD.

The ICMpanel is a stand-alone partial discharge detector for evaluating the condition of medium and high voltage insulation. It comprises of a touch panel computer which can be optionally controlled by a keyboard / mouse. For the common use the touch-panel offers five control buttons and a two dimensional PD pattern. For in depth analysis a software can be started which also offers a three dimensional PD pattern and further data processing and recording.



Applications

Instantly displaying information in an intuitive interface, the ICMpanel is a good choice for applications such as quality control tests in manufacture of electrical products, and for quality assurance of industrial and utility equipment from capacitors and bushings to gas-insulated switchgear and others. A wide range of accessories adapts the ICMpanel to specific testing applications and noise conditions.

The ICMpanel offers convenient on-site testing of equipment such as cable accessories or sensors installed with gas insulated switchgear, for instance.

Generally, this unit can be used with the full range of the ICMseries preamplifiers, covering the IEC60270 standard and ultrasonic frequencies up to the UHF range (20kHz-2GHz).

To adapt the basic ICMpanel unit to suit special measurement requirements, it can be equipped with various options:

- Voltage measurement. Adds the HVM oscilloscopic display showing the waveform of the high voltage and calculates \dot{U} , $\dot{U}/\sqrt{2}$, U_{rms} , etc.
- Analog gating to cancel external disturbance. This option offers sensitive measurements even in noisy environments.
- TTL-Gating. Unconditioned gating on an external TTL signal to combine the ICMpanel with IGBT driven resonant high voltage test sets.
- UHF measurements on GIS. Comes with a logarithmic display for the UHF preamplifier RPA6C
- MUX4. Four-channel multiplexer for testing three-phase equipment, such as power transformers. For each channel the unit maintains an individual setup and calibration.
- MUX12. With this option a remote 12-channel switching box offers cost-efficient acceptance testing on large power transformers.
- AUX8. For long-term testing up to eight additional parameters can be captured as 0(4)-20mA or 0-10V signals.



Technical Data

Mains Supply:	90-264V _{AC} , 47-63Hz	(automatic)
Line Fuse:	1,6 A	(time-lag)
Power Requirements:	approx. 85VA	
Display:	TFT LCD (color 262k)	
Display Resolution:	1024 x 768 Pixel	
Operation (standard):	5 menu supported pushbuttons (touch panel)	
Operation (advanced):	external keyboard / mouse	
Input Impedance (PD):	10k Ω //50pF	(RPA1-Input)
	50 Ω	(AMP IN)
Input Sensitivity:	< 200 μ V	(RPA1-Input)
	< 2mV	(AMP IN)
Lower Cut-Off (-6dB):	40, 80 or 100kHz	(software controlled)
Upper Cut-Off (-6dB):	250, 600 or 800kHz	(software controlled)
Synchronization:	Line, with automatic change to external	
Synchronization Range:	10Hz - 500Hz	
External Synchronization:	max. 100V _{rms} or \pm 200V _{peak} into 1M Ω // 200pF	
Recorder Output:	0-10V with R _O =100 Ω	(re-converted analog value of the meter reading)
Operation Temperature:	10-40°C	(non condensing)
Size (W x H x D):	449 x 266 x 355 mm ³	
Weight:	approx. 12 kg	

Product information and design is subject to changes without notice.