

PD INSPECTION DETECTOR

ARES ONE



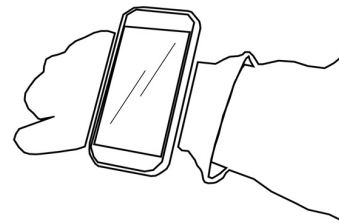
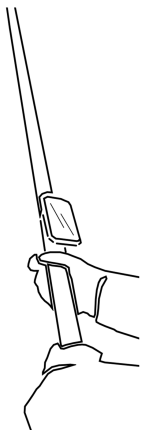
Applications

Ares Instruments introduces the world advanced PD detection technology.

The Ares One Handheld Partial Discharge Detector adopts quick intelligent power testing system. The portable high-efficiency partial discharge inspection tool for high-voltage insulation equipment.

It can flexibly configure 7 various sensors according to different products to be tested.

- TEV, Ultrasonic, HFCT and the special Switchgear capacitive sensor (VIS) are suitable switchgear and ring network cabinet;
- Ultrasonic and UHF are suitable for detecting the insulation state of GIS;
- Ultrasonic and the new special **Bluetooth Capacitive sensor** are suitable for testing overhead assets.



Ares One complete set offers the ability to indicate the intensity of the partial discharges in dB, thus the reading is kept as a simple intensity level indication, proportional to the probability of a fault's presence in the tested medium voltage accessory such as cable heads, insulators, etc..., using a lightweight hotstick with adjustable sensor.

Technical Specifications

ARES ONE Portable Partial Discharge Detecting System	
SOFTWARE INCLUDED	YES
DYNAMIC RANGE	65 dB
SAMPLING FREQUENCY	65 MHz
DATA STORAGE	Over 500 recordings
ACCURACY	±1 dB
RESOLUTION	1 dB
BANDWIDTH	100 kHz to 80MHz
OPERATING PHASE SIGNAL RANGE (50-60 Hz)	50 to 700mVrms
OPERATING RF SIGNAL INPUT RANGE	500 uV to 500mV
SENSIVITY	3 pC
REFERENCE SIGNAL OUTPUT	4 V
CLOCK	Real-time internal clock
OPERATING TEMPERATURE	-30 to 50°C (-22 to 122°F)
STORAGE TEMPERATURE	-40 to 60°C (-40 to 140°F)
CHARGING TEMPERATURE	0 to 50 °C (32 to 122°F)
HUMIDITY	0 a 95% non-condensing
NOISE DETECTION	50/60Hz Sync Module
DISPLAY	Color LCD touch screen
AUTONOMY	10 hours
BATTERIES	NiMH rechargeable
CHARGING	3 hours
DIMENSIONS	210 x 120 x 60 mm
WEIGHT	~900g

ARES ONE Portable Partial Discharge Diagnostic System (light version)	
SOFTWARE INCLUDED	NO (Offline model)
DYNAMIC RANGE	60dB
SAMPLING FREQUENCY	30MHz
BANDWIDTH	100 kHz to 80MHz
OPERATING PHASE SIGNAL RANGE	100 kHz to 80MHz
OPERATING RF SIGNAL INPUT RANGE	50 to 700 mVrms
SENSITIVITY	3 pC
REFERENCE SIGNAL OUTPUT	4V
(REF) CLOCK	Real-time internal clock
OPERATING TEMPERATURE	-20 to 50°C (-4 to 122°F)
STORAGE TEMPERATURE	-20 to 50°C (-4 to 122°F)
HUMIDITY	0 to 95% non-condensing
PROTECTION	IP 67
DISPLAY	Color LCD touch screen
AUTONOMY	10 hours
BATTERIES	NiMH, rechargeable
CHARGING	3 hours
DIMENSIONS	210 x 120 x 60 mm
WEIGHT	~900g

ARES ONE CONTACT ACOUSTIC PROBE	
OPERATING RANGE	0-65 dB
CENTER FREQUENCY	40 ± 2 KHz
ACCURACY/RESOLUTION	1 dB
MAGNETICALLY SUPPORTED	Yes

ARES ONE AIRBORNE PARABOLIC SENSOR	
OPERATING DISTANCE	Optimizado a 15 m (49 pies)
OPERATING RANGE/RESOLUTION	0-65 dB / 1dB
SENSITIVITY/ACCURACY	-65dB/ 1 dB
DISH DIAMETER	320 mm

ARES ONE TEV SENSOR	
LOW FREQUENCY	2 MHz to 85 MHz
HIGH FREQUENCY	100 MHz to 800 MHz
DIMENSIONS	50 x 35 x 25 mm
MAGNETICALLY SUPPORTED	Yes

ARES ONE HFCT	
OPERATING RANGE	0-65 dB
INTERNAL DIAMETER	60 mm
ACCURACY/RESOLUTION	1 dB
OUTPUT IMPEDANCE	50 Ohms
FREQUENCY RANGE	2MHz to 85 MHz

ARES ONE BLUETOOTH CAPACITIVE SENSOR	
FITTING POWER	Universal End-Fitting Hot-stick
MEASUREMENT RANGE	0-65 dB
RESULT DISPLAY	Number, Table and Graph
RECORD RESULTS	Picture, video, audio, text, Annotations
CONNECTION TYPE	Bluetooth 4.0
AUTONOMY	4 x AA (16 Hours)
AUTO-OFF	15 mins
SEFT-TEST	Yes
DISPLAY SCREEN	Color LCD touch screen
OPERATING TEMPERATURE	-20 to 50°C (-4 to 122°F)
STORAGE TEMPERATURE	-20 to 50°C (-4 to 122°F)
PROTECTION	IP 68
FREQUENCY RANGE	100kHz to 80MHz

ARES ONE SWITCHGEAR CAPACITIVE SENSOR (VIS)	
MEASUREMENT RANGE	0-65 dB
ACCURACY/RESOLUTION	1 dB
MAX AND OPERATING INPUT AT 50-60Hz (SYNCHRONIZATION SIGNAL)	3.5V RMS
INPUT IMPEDANCE	760 ohms
OUTPUT IMPEDANCE	50 ohms
SIGNAL BANDWIDTH	100kHz to 80MHz
OPERATING TEMPERATURE	-20 to 85°C
STORAGE TEMPERATURE	-20 to 85°C
SEFT-TEST MODULE	Included

Package Content

