



# OBIAT

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### HT PQA-820 WATERPROOF REMOTE DISPLAY WIFI ENABLED POWER ANALYSER

Turn your smartphone or tablet into the most advanced power and energy consumption analyzer in the world.

3 system types: Single-phase, 3-wire Three-phase, 4-wire Three-phase.

Easy to set up directly from Smartphone or Tablet.

Technology and straightforwardness. Immediate display of all recordings and simple analysis thanks to rapid gestures and detailed zoom on all quantities.

Real Time. Instant display of all wave forms, harmonics, vector diagrams and summary function for a prompt reading of the most important parameters.

Energy saving. Discover absorption capacity of all your equipment with one click and save energy.

383 parameters which can be displayed simultaneously.

Jump function. Relation between time and frequency domains or between power and energy consumed available instantly. \* Using HTanalysis App for iOS™ or Android™ on Tablet or Smartphone. The App can be downloaded for free on AppStore™ or Playstore™

Real time analysis. Using Wi-Fi connection you can display wave forms, vector diagrams, harmonics and all electrical parameters for each phase on your tablet/smartphone/PC.

Unlimited battery life. PQA820 is self-powered during recording.

IP65. Rain doesn't scare us. PQA820 is not afraid of the weather. Thanks to its heavy-duty and waterproof case the instrument is well protected and can be used in any environment.



**Bonus Dual SIM Card Android Tablet Included**

### HT 7051 5kV INSULATION TESTER



- Insulation resistance measurement with test voltage up to 5kV
- Measurement range up to 10T ohm
- FIX mode with test voltage of 100, 250, 500, 1k, 2.5k, 5kVDC
- ADJUST mode with selectable voltage, 100 to 5kVDC
- RAMP mode with selectable duration time and test voltage
- Polarization Index (P.I.) measurement
- Dielectric Absorption Ratio (D.A.R) measurement
- DC/AC TRMS voltage up to 600V
- SMOOTH feature for stable measurement results
- GUARD lead for surface leakage current compensation
- MX, MIN limit selectable threshold on measurements
- Automatic discharging of device under test
- LCD display with backlight and bargraph
- Internal memory for saving results
- Recall saved results at display
- RS-232 interface for PC connection
- Rechargeable internal battery

### HT COMBI 420 INSTALLATION TESTER

The **COMBI 420** is an innovative meter designed to perform all safety testing and verification of electrical installations in compliance to VDE0100 and BS7671 Standards. The instrument is very easy to use having a wide number of measurement ranges.

The use of a special remote probe is particularly useful as is the AUTO internal function when performing sequential measurements of Global Earth Resistance. A contextual 'help' selectable by user is available for each meter range function. The model can also save each test result inside memory and can transfer saved data to a PC through an optical/USB interface with dedicated Windows software.

- Continuity test with 200mA range
- Insulation measurement ranges 50, 100, 250, 500, 1000V
- Trip out time of RCD's type AC. (automatic and manual modes)
- Trip out current of RCD's. (automatic and manual modes)
- Loop Impedance P-P, P-N, P-PE
- Loop Impedance P-P, P-N, P-PE with high resolution
- 0.1mΩ using the IMP57 optional accessory
- Protective short circuit current
- Contact voltage
- Global Earth Resistance without tripping RCD's
- Phase sequence indication
- Power Measurement with optional HT96U Current Clamp
- AUTO function: Global Earth Resistance + RCD test + Insulation
- Make measurements remotely. (optional accessory PR400)
- Leakage current with optional HT96U Current Clamp
- Contextual 'HELP' at display for each function
- Internal memory
- Optical/USB interface with PC connection



### HT 70 voltage detector and a phase sequence indicator.

- AC voltage range: 100V - 1000V to ground.
- Frequency range: 50/60Hz.
- LED red/green + buzzer for indication of test.
- Pocket clip.
- Safety: IEC/EN61010-1, CAT IV 1000V.
- Pollution degree: 2.
- Power supply: 2x1.5V batteries type AAA IECLR03.
- Battery life: >9000 tests.
- Size (LxWxH): 160 x 26 x 20mm.
- Weight (included batteries): 48g.
- Accessories: batteries + user manual.

Correct Phase Sequence



Incorrect Phase Sequence



### HT 9021 CAT-IV AC/DC Clampmeter

- TRMS measurement
- DC/AC current up to 1000A
- DC/AC voltage up to 1000V
- "Voltsense" feature for AC voltage detection
- Resistance & Continuity test with buzzer
- Frequency with jaws and test leads
- Capacitance, Diode test & Duty Cycle
- Temperature with type K probe
- Autorange
- Data HOLD
- MAX/MIN/ZERO
- PEAK CURRENT (<10ms)
- Backlight
- Bargraph
- Model **HT9022** can measure and log Power



### HT 701 Multimeter + Insulation Tester

- DC Voltage
- AC TRMS Voltage
- DC Current
- AC TRMS Current
- Insulation resistance with test voltages 50, 100, 250, 500, 1000
- Resistance, Continuity & Diode test
- Capacitance & Frequency
- Temperature with type K probes
- Data HOLD
- MIN/MAX/AVG
- Manual/Autorange
- Relative measurements
- Autotest for automatic detection of AC or DC parameters
- Bargraph, Autobacklight &
- Internal memory
- Fuse protection on inputs
- Auto Power OFF



### HT 8100 Multimeter + Process calibrator

- DC/AC TRMS Voltage
- DC/AC TRMS Current
- AC+DC measurements
- Generation of output current signal up to 24mA DC
- Selection 0-20mA and 4-20mA output
- Up to 4 available automatic ramp
- Loop current measurement of external transducers
- 250 Ohm HART feature
- Simulating of external transducers
- Resistance
- Continuity & Diode test
- Frequency
- Data HOLD
- MIN/MAX/AVG
- Manual/Autorange
- Relative measurements
- Autotest for automatic detection of AC or DC
- Autobacklight, Internal memory & Auto Power OFF



## Megger

### MIT320 Insulation Tester

- 1000V, 500V, 250V test voltages
- Conforms to IEC 61010-1
- CAT-III 600V rated
- Extremely easy to use
- Tough rubber armoured case
- Self contained protective cover
- Live circuit warning
- Weatherproof to IP54
- 200mA continuity testing
- Insulation limit alarm
- Intelligent Safety System
- Backlit display and range selection
- Insulation resistance up to 999M ohms
- Resistance measurement range to 1 MΩ
- Switched probe supplied for one handed operation



## KYORITSU

### 3132A Analogue Insulation / Continuity Tester

- Designed to meet IEC 61010-1 and IEC 61557 safety standard
- 1000V, 500V, 250V test voltages
- 3Ω/500Ω Continuity Ranges
- 1mA rated test current at the minimum resistance
- 200mA measuring current on continuity testing
- Automatic discharge of circuit capacitance
- (Any charge stored in the circuit under test will be automatically discharged after testing)
- Live circuit warning buzzer and neon lamp
- Small and lightweight. Shock resistant new case material
- AC voltmeter with linear, easy-to-read scale
- Operates on AA, R6 × 6 dry batteries



## EXTECH

### 380363 Digital High Voltage Insulation Tester

Autoranging insulation measurements to 10MΩ plus manual datalogging

- 1000V, 500V, 250V test voltages
- Measure Insulation Resistance to 10G Ohm
- Large LCD display with analog bargraph
- Lo Ohm function for testing connections
- Automatic discharge of capacitive voltage charges
- AC/DC voltage measurement up to 999V
- Manual data record and read function (9 sets)
- Live circuit display warning and beeper



## YOKOGAWA

### Process Calibrator CA300 Series

The CA300 Series is a high accuracy source and measure portable handheld calibrator used to inspect and maintain the accuracy of control devices such as temperature controllers, temperature transmitters, temperature sensors and other process devices which are used in process plants, industry machinery, and manufacturing. Available in 3 models, the CA310, CA320, and CA330 provide an ergonomic and friendly user-interface making it easy to use.



## PROVA<sup>®</sup> Prova 11 AC/DC mA Clamp Meter



- Accurate AC/DC digital clamp meter for current measurements
- Resolution: AC 0.1mA, DC 1mA
- One touch zero for DC amps adjustment
- Jaw opening: 23mm diameter
- Large 3-3/4 digit Liquid Crystal Display
- Fast bargraph display for transient observation. Continuity and frequency measurements.
- Min/Max, and Data Hold functions
- Easy single rotary switch for any function selection
- 600 volt overload protection on Ohms range
- CAT II 600V, CAT III 300V

## TENMARS

### TM-190 Multi-Field EMF Meter

- 4 digits, 2.4 inches color TFT LCD.
- 3 measurements in one meter: Electromagnetic Field (3 - axis ), Electric Field., RF Field Strength
- Data Hold (HOLD)
- Sample rate 6 seconds per time
- Audible Key tone alarm Buzzer
- Language Selection (choose your language): English; Traditional Chinese; Simplified Chinese; Japanese; Spanish
- Instrument can be linked to user's External Power Supply via USB mini-B (5-pin) port



## REED

### R3001 Digital Manometer / Anemometer

- Measure and display air velocity, air flow volume, pressure and ambient temperature with a single, compact unit
- Air velocity displayed in m/s, fpm, km/h, mph or knots
- Air flow displayed in cfm or cmm
- Pressure displayed in psi, mbar, inH2O, mmH2O or Pa
- Temperature displayed in °C or °F
- Max./Min./Avg. function captures extreme pulsating or varying pressure signals
- Real time clock provides for time-stamped measurements
- Push button calculation of rectangular or circular duct areas
- Large LCD display with backlight
- Auto power off and low battery indication
- USB interface



## EXTECH<sup>®</sup> INSTRUMENTS

### 42509 Dual Laser IR Thermometer with Colour Alert

#### High/Low Alarms with Vision Alarm Function

- Fast and accurate measurements at 12" where the two lasers converge with 12:1 field of view
- Measures up to 950°F (510°C)
- Automatic blue backlit dual LCD display
- Red backlit display flashes when reading exceeds High or Low set points
- Exclusive 150 millisecond instantaneous response for capturing spikes in temperature
- Max mode captures and holds rapidly changing temperatures
- Adjustable emissivity increases measurement accuracy for different surfaces
- Adjustable High/Low set points with audible alarm alerts user when temperature exceeds the programmed set points
- Double molded housing



## TENMARS

### TM-209 LUX/FC LED Light Meter

- Spectral response close to CIE Luminous spectral efficiency
- Measuring intensities of illumination in Lux or Foot-candle
- Sensor : Silicon photo diode and filter
- Cosine angular corrected
- Data hold
- 99 manual records
- According to JISC 1609 : 1993 and CNS 5119 general A class specifications
- Check LED Light Intensity



### Assorted Cases, Test Leads, Probes and Accessories



## GW INSTEK

### GDS 2000 Series Digital Storage Oscilloscope

- 300MHz/200MHz/100MHz/70MHz Bandwidth, 2 or 4 Input Channel
- 2GSa/s Real-time Sampling Rate and 100GSa/s Equivalent Time Sampling Rate
- 2Mega Points Record Length
- 1mV /div to 10V/div of Vertical Range
- 1ns/div to 100s/div of Time Base Range
- 80,000 wfm/s of Waveform Update Rate
- 8 inch 800\*600 High Resolution TFT LCD Display
- Built-in Segmented Memory and Waveform Search Functions to Optimize the Efficiency of Record Length
- Zoom Window and Play/Pause can Rapidly Navigate the Waveforms
- 36 Automatic Measurement Functions Offers Various Measurement Selections
- Optional 8 or 16 digital channel with Logic analyzer (MSO)
- Optional Function Generator
- Flexible Remote Control Connectivity (Standard: USB ; Option: LAN/GPIB)
- Upgradable CAN/LIN bus analysis, Advanced Logic, Datalog, DVM and H-expansion functionalities



## GW INSTEK

### SPS Series Power Supplies

The SPS-Series are single output, 360W, switching DC power supply. OVP protects the SPS-Series and their load from unexpected conditions. High regulation is maintained at 0.01%. Remote sensing adds extra level of precision by compensating cable losses between loads. Turning the output On/Off from external device is available through remote control terminals. The SPS-Series are an ideal solution for power-efficient bench-top or portable applications requiring high regulation.

- Dual Measurement Display
- 0.01 % High Regulation
- Constant Voltage and Constant Current Operation
- High Efficiency
- High Power Density
- Over Voltage Protection
- Remote Output ON/OFF Control

