

TEST & MEASUREMENT INSTRUMENTS

TEKON®

TEKDN* is a customer-oriented solution provider by offering measurement systems ensuring the highest level of precision, safety and durability, such as battery quality analyzer, power quality analyzer, EESS performance test system, transformer analyzer, EV/HEV test and motor pump tester used in applications of testing RMS (Risk Management System), FMS (Facility Management System) and EMS (Energy Management System).



Transformer Analyzer

TEKON°510

TEKON610 is a system designed for distribution (service) transformer, which not only measures electrical conditions such as turns ratio, excitation current, power, harmonics and inrush current, but also tests transformer's electrical characteristics.

It can comprehensively diagnose the electrical integrity of the transformer including risk of outage, presence of internal failure and the installed condition. It is a small-size portable device ideally suited to production, installation, post maintenance and R&D of distribution transformers.

The system allows you in the most effective and easiest manner to perform measurement, data storage, analysis and output via the 7" wide LCD screen, in addition a function of transferring measurement data to remote locations by using a mobile app. You can also print out measurement data via printer, save them to the meter's internal memory, or download to your PC.

Features

- Measures transformer's turns ratio and excitation voltage
- Measures the quality of three-phase power
- Testing of transformer: transformer ratio, polarity, phase angle, impedance, no load
- Verifies limiter settings: function to judge whether acceptable or non-acceptable
- Application of dockable wireless printer (bluetooth) (Optional)
- Measurements automatically saved to designated storage space in real time
- Automatic measurement and display of measurement result
- Output of measurement data in reports



| General specifications | | |
|-----------------------------|---|--|
| | | |
| Power(battery) | 7.2V/5.2Ah Li-ion, 12V/2.5A DC adaptor | |
| Data storage | Micro SD card (8GB), 32GB max | |
| Communication | USB Ver2.0, Bluetooth Ver2.1 + EDR Class2 | |
| LCD display | 1024×600 pixels, 7.0-inch color TFT screen (touch panel) | |
| Operating temp/ humidity | 0°C ~ 45°C, RH 85% max | |
| Storage temp/ humidity | -20°C ~ 60°C, RH 85% max | |
| Compliant Standard | IEC 61010-1 CAT IV 300V, CAT III 600V Pollution Degree 2, IEC 61010-2-030, IEC 61010-031, IEC 61326, EN 50160 | |
| Dimension | 270(L)×246(W)×124(H) mm | |
| Weight | 3.0kg | |
| Case Color | Black, Yellow, Orange | |

| Accessories | |
|-------------|---|
| | |
| Standard | TTR Cable assembly, Test Lead, Flexible current sensor (dia. 200mm), 12V/2.5A adaptor, 7.2V/5.2Ah Li-ion battery, USB cable, Micro SD card (8GB), Portable bag, PC S/W, User's manual |
| Optional | Rogowski Coil(dia. 100mm) AC 5A, 50A, 500A, 1000A Current Clamp |



| Electrical specifications | | | | |
|--|--|---|--|--|
| Management | | | | |
| Measurement of tur | | | | |
| Туре | Single-phase | Three-phase (610B) | | |
| Range for turns ratio | 5Vac 1~1,999(0.1%) 2,000~3,999(0.25%) 4,000~15,000(2%) | 5Vac 1~1,999(0.1%) 2,000~3,999(0.25%) 4,000~15,000(2%) | | |
| | 40Vac 1~1,999(0.1%) 2,000~3,999(0.25%) 4,000~15,000(1%) | 40Vac 1~1,999(0.1%) 2,000~3,999(0.25%) 4,000~15,000(1%) | | |
| Excitation voltage | 1V, 5V, 10V, 40V | 1V, 5V, 10V, 40V | | |
| Excitation current | 0~1A | 0~1A | | |
| Phase angle | Range : 0~360degree Accuracy: ±0.2degree+2dgts | Range : 0~360degree Accuracy: ±0.2degree+2dgts | | |
| Polarity | Displayed on screen | Displayed on screen | | |
| Transformer Test Pi | rocedure (Optional) | | | |
| Testing item | Description | | | |
| | - Measurable range : 1~15,000 | | | |
| Transformer ratio testing | - Excitation voltage: 1Vac, 5Vac, 10Vac, 40Vac - Type: Single-phase (basic), 3-phase (610B) | | | |
| Polarity testing | - Identifies additive polarity and subtractive polarity - Measures turns ratio | | | |
| Angular displacement (phase shift) testing, phase rotation testing | - Measures phase-to-phase voltage and winding voltage - Vector analysis - Checks displacement via diagram - ACV (external reference meter) | | | |
| Impedance testing | - Load loss: Power Quality Analyzer - Measurement of phase voltage: Power Quality Analyzer - Test results displayed - Rated current (external reference meter) | | | |
| No-load testing | - No-load loss: Power Quality Analyzer - Excitation current: Power Quality Analyzer - Rated voltage (external reference meter) | | | |
| Voltage fluctuation rate, efficiency | - Values resulting from measurement displayed | | | |
| Power Quality Analy | zer | | | |
| Voltage input | AC+DC | | | |
| Input channels | 4 | | | |
| Voltage range(L-N) | Phase voltage (L-N) : 50 ~ 1000 VRMS Line voltage (L-L) : 50 ~ 1730 VRMS | | | |
| Measurable range | 10% ~ 150% of nominal voltage | | | |
| Sampling | 10.24k Samples/sec @ 50/60Hz | | | |
| Frequency | 40 ~ 70Hz ± 20 mHz | | | |
| Current input | AC+DC | | | |
| Input channels | 4 | | | |
| Measurable range | (Rogowski Coil used) 3 ~ 5000ARMS ± 1.5% of mV (Current clamp-on used) 50m ~ 1000ARMS ± 0.5% of mV | | | |
| Power wiring | 1P2W, 1P3W, 3P3W, 3P4W | | | |
| Measurement parameters | Voltage, Current, Frequency, Active power, Inactive power, Apparent power, Active power value, Inactive power value, Apparent power value, Power factor (cos 0), Neutral current, Harmonics (up to 50st harmonic), Power quality (swell / dip / cycle / transients / over voltage / inrush current / unbalanced rate), flicker | | | |
| Measurement of wa | aveforms | | | |
| Channel | 4 | | | |
| Bandwidth | DC to 100Hz | | | |
| Temperature & Hun | Temperature & Humidity (operating environment) | | | |
| Measurement | Measurable range | Accuracy | | |
| Temperature | -40°C ~ 125°C | ±0.3(10~60°C) | | |
| Humidity | 0 ~ 100%RH | ±2%(20~80%RH) | | |
| - Built-in temp/humidity s | ensor | | | |
| | | | | |

Power Quality Analyzer

TEKON 550 TEKON 560

Transformer Turn To Ratio

TEKON 600

Transformer Analyzer

TEKON 610

Energy Storage System Diagnostic

TEKON 650

Industrial Robot Diagnostic

TEKON 700

EV/HEV Diagnostic

TEKON 800

Battery Quality Analyzer

TEKON 950





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