



TEKON[®]

TEST & MEASUREMENT
INSTRUMENTS

MODEL 560
CE

Power Quality Analyzer

www.tekon.co.kr

TEKON[®]

TEKON[®] 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).



Industrial Robot Diagnostic

TEKON[®] 700

TEKON700 Industrial Robot Comprehensive Diagnosis is a dedicated equipment for safety inspection of production robots and conveyors installed in the industrial field. It is used for diagnosing power, control, operation status and electrical safety requirements of grounding, insulation, power, This is a portable industrial robot comprehensive diagnostic tool.

Main applications are installation, maintenance (inspection, inspection) of industrial robots and conveyors, measurement of all electrical performance required for after-sales service, diagnosis.

Features

- Power measurement (3P), Insulation resistance, harmonics (up to 50st harmonic), leakage current, earth resistance(optional)
- Measurement of Robot inspection items, including judgment of acceptable/non-acceptable according to Industrial Robot inspection directives
- Generates standardized inspected records and system performance reports
- A comprehensive performance tester for compliance testing of electrical systems and equipment
- Comprehensively evaluates the performance of Industrial Robot installed, failure potentials thereof and internal faults
- Stores measurement data and transmits them to remote location
- Measures temperature and humidity



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 display (TSP)
Operating	0°C ~ 45°C, RH 85% max
Storage	-20°C ~ 60°C, RH 85% max
Compliant standards	IEC 61010-1 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

Check & inspection of Industrial Robot

Check and verification

Div	Inspection item
Power transmission parts	Motor operation
Power loss, fluctuation	Power cut test (runaway, unsteady stop)
Control system performance	Safety status check
Operation mode	Checking status and operation
Cooperative driving	Check installation that meets safety standards
System stop function	Check the protective stop and emergency stop
Start and restart	Checking the interlocking device
Sensitive protective device	Inspection of protective device operation

Measurement & testing

Div	Test item
Earth	Less than 400V: Less than 100Ω, 400V or more: Less than 10Ω
Power disconnect device	Power cutoff behavior
Prevention of electric shock	Measurement of residual voltage (60V or less)
Wiring	Coating state of wiring (insulation measurement)
Over current protection	Over current shut-off (breaking capacity measurement)
Motor overload	Operation test of motor overload device
Insulation Resistance	Between power line and protective bonding circuit (500V, Insulation resistance 1MΩ or more)
Control circuit, function	Control voltage (277V or less), operation voltage (ground voltage: AC150V, DC300V or less)

Measurement function

Power quality analyzer

Voltage input	AC+DC
Input channels	4
Voltage range (L-N)	Phase voltage (L-N) : 50 ~ 1000V RMS Line voltage (L-L) : 50 ~ 1730V RMS
Measurement range	10% ~ 150% of nominal voltage
Sampling	10.24k Samples/sec @ 50/60Hz
Frequency	40 ~ 70Hz ± 20 mHz
Current input	AC+DC
Input channel	4
Measurement range	Flexible clamp-on: 3~5,000A RMS±1.5% of mV Clamp: 50m~1,000A RMS ± 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 θ), neutral current, harmonics (up to 51st harmonic), Power quality, inrush current

Waveform measurement

Channel	4
Bandwidth	DC to 100Hz

Insulation Resistance

Test voltage	100V, 250V, 500V, 1000V
Measurement range	10kΩ ~ 200GΩ
Test current	1mA
- Measuring mode: t, PL, DAR, INS	

Battery Internal Resistance

Measurement range	3mΩ~300Ω
Resolution	0.001mΩ
Accuracy	±0.8%+10dgts

Leakage Current(Optional)

Measurement range	3mA~20A
Resolution	0.01mA
Accuracy	±2%+5dgts

Temperature & Humidity (under operating environment)

Measurement	Measurement range	Accuracy
Temp	-40°C ~ 125°C	±0.3°C(10~60°C)
Humidity	0 ~ 100%RH	±2%(20~80%RH)

- In-built temperature and humidity sensors

Accessories

Standard	Cable for measuring insulation resistance, lead for measuring power, 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



Rogowski Coil (200A)



Test Lead



7.2V/5.2Ah Li-ion battery Pack



12V/2.5A Adapter

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



TEKON®

203-702 Bucheon Technopark, 388, Songnae-daero, Wonmi-gu, Bucheon-si, Gyeonggi-do, Korea, 14502
TEL 82-32-325-6030 FAX 82-32-325-6032 E-mail tekon@tekon.co.kr

www.tekon.co.kr

Marketed in INDIA by -



CROMTECH INDIA

1st Floor Begum Niwas, Opp Mercantile, Bank Society Colony, 5th Natwar Nagar Road, Jogeshwari (East), Mumbai 400 060.
Maharashtra - India.

Mobile: +91 98693 82134 / 81088 13320

Telefax: +91 22 2838 6028

Email: cromamumbai@mail.com/cromtechindia@mail.com/info@cromtechindia.com/sales@cromtechindia.com

Website: www.cromtechindia.com