

6330 FEATURES

VOLTAGE: 50-650V, 920V peak

CURRENT: 0.1-21A, 30A peak

CONNECTIVITY:

- Ethernet Port
- 4 USB A; USB B
- Test Pulse Pickup
- 3 Probe Inputs (Current or Voltage)

LOAD BOX:

- True three phase
- Current 0-5A with full harmonics

ACCURACY:

- Current: $\pm 0.02\%$
- W, WHrs: $\pm 0.04\%$
- VA, VAHrs: $\pm 0.04\%$ (conformance to definitions)
- VAR, VARHrs: $\pm 0.04\%$ (conformance to definitions)
- Phase: ± 0.005 degrees
- Probe Channels: $\pm 0.05\%$ plus probe uncertainty
- Voltage: $\pm 0.02\%$

POWER:

- Fully battery powered
- 99.6 WHr battery
- Charge spare battery in truck or at desk
- Charge in or outside of unit from AC or DC
- Easily swap out battery
- 8+ hours continuous operation from single charge

TEMPERATURE RANGE: -10 °F to 120 °F

DISPLAY:

- 7" high resolution screen
- Direct sunlight readable
- Protected screen

PELICAN® CASE:

- 18.2" x 13.9" x 6.7"
- Durable, water resistant
- Integrated GPS locator

LIGHTWEIGHT:

- 17.8 lbs. with basic items needed in field

FUNCTIONALITY

As a utility, the majority of revenue comes from large customers who have transformer-related services. At transformer-rated sites, the opportunity for something to go wrong is much greater than at a self-contained site. Studies have shown that at transformer-rated sites, the vast majority of issues are related to wiring, CTs, PTs and other issues. If you want to be sure that the customer is billed correctly and you are not losing revenue, you must test the whole site, not just the meter.

TESCO's all-in-one **6330 Meter Site Analyzer** gives you the most versatile site testing tool available in a small, lightweight package. No other test system has the functionality of:

- COMPLETE SITE VERIFICATION
- CT TESTING (RATIO WITH BURDEN, BURDEN, ADMITTANCE)
- METER TESTING
 1. CUSTOMER LOAD TO 20A
 2. LOAD BOX TO 5A
 3. ACCURACY, DEMAND, TIMED REGISTER, TIMED RUN, ENERGY DELIVERY
- "FAST KEY" ANYTIME DATA
 1. METROLOGY DATA
 2. PHASOR DIAGRAMS
 3. LIVE WAVEFORMS WITH RECORDING
 4. HARMONICS

METER TEST:

Meter testing using site voltage and current by connecting to test switch. Customer load testing and/or Phantom load testing to comply with ANSI C12.1 FL/LL/PF.

METER TEST MODES:

- Accuracy using pulse output of meter
- Timed Run
- Timed Register
- Demand
- Energy Delivery

CT TEST:

- Ratio testing with continuously variable added burden up to 8 ohms
- Ratio testing with applied burden up to 8 ohms
- Burden only testing with continuously variable added burden up to 8 ohms Admittance testing Demag

OTHER:

- Harmonic analysis up to 50th
- Voltage, Current, Power Factor, VA, VAR, Watts, Vah, VARh, kWh, THD, Frequency, Phase Rotation
- Waveform Recording
- Phasor Diagrams

FIELD TESTING

Catalog No.

6330

METER SITE ANALYZER



TESCO METERING

Made
in the
USA

TESCO
925 Canal Street, Bristol, PA 19007
ph: 215.228.0500
tescometering.com

SPECIFICATIONS

Standard Unit:

- 6330 TESCO Meter Site Analyzer
- BOO-0001: Battery Pack, 11.1V, 8.8Ah, 99Whr battery (3s3p)
- BC1-0003: Battery Charger, 90W 19VDC output, 85-264VAC input with 6 ft. cord
- 1037-SA: TESCO Optional Pickup with 9.84 ft. cable, Next Gen compatible

Additional Items Necessary For Unit To Fully Function:

Select a jumper set:

- CJO-6330-001: Current Jumpers, 1.64 ft. terminates in Alligator Clips, set of 3, black
- CJO-6330-02: Current Jumpers, 1.64 ft. terminates in XCHL EZ-Hooks, set of 3: red, yellow, blue

Select a current cable set:

- Three phase terminated with duckbill probes for test switches, 20A max
 1. CCO-6330-002: 6.56 ft. length
 2. CCO-6330-003: 9.84 ft. length
- Three phase terminated with XCHL EZ-Hooks, 20A max
 1. CCO-6330-012: 6.56 ft. length
 2. CCO-6330-013: 9.84 ft. length

Select a voltage cable set:

- Three phase plus neutral, phases are fused, terminated in safety 4mm plugs, 1000V max
 1. VCO-6330-002: 6.56 ft. length
 2. VCO-65330-003: 9.84 ft. length

Select a test clip for voltage:

- VTO-6330-001: Test Clips, 4mm socket to Dolphin, CAT III/1000V, pack of 4: black, red, yellow, blue
- VTO-6330-002: Test Clips, 4mm socket to XCHL EZ-Hook, pack of 4: black, red, yellow, blue
- VTO-6330-003: Test Clips, 4mm socket to Crocodile, CAT III/1000V, pack of 4: black, red, yellow, blue

Select at least one Rogowski coil:

- PO1-0040-RYB: Set of Rogowski Current Probes, 5-5000A, 40 in. long, 305mm aperture, RED/YELLOW/BLUE with Calibration
 1. PO1-0040-R: Red only with Calibration
 2. PO1-0040-Y: Yellow only with Calibration
 3. PO1-0040-B: Blue only with Calibration
- PO1-0016-RYB: Set of Rogowski Current Probes, 5-5000A, 16 in. long, 120mm aperture, RED/YELLOW/BLUE with Calibration
 1. PO1-0016-R: Red only with Calibration
 2. PO1-0016-Y: Yellow only with Calibration
 3. PO1-0016-B: Blue only with Calibration

Optional accessories:

- BOO-0001: Battery Pack, 11.1V, 8.8Ah, 99Wh battery (3s3p)
- BC1-0001: Battery Charger, Car DC power adapter, 12VDC in, 16VDC out, 120W
- BC1-0002: Battery Charger, Dual Desktop, 80W, 17.4VDC/4.8A output
- B01-0003: Battery charger, 90W, 19VDC output, 85-264VAC input with 6 ft. cord
- 1037-SA: Optical Pickup with 9.84 ft. cable, Next Gen compatible
- 1037-ITRN-SA: TESCO Optional Pickup with 9.84 ft. cable, for meters with top pulse output, Next Gen compatible
- PO2-0163-KIT: Sensorlink 8-0163 Litewire Fiber Optic Couples Amprobe (2000A with adapter and calibration for 6330)
- BNC-0025 or BNC-0050: BNC Cable for extending PO2-0163 25 ft. or 50 ft. (Male BNC to Male BNC)
- POO-RETRO-BNC: Female BNC to 6330 adapter including calibration of customer supplied probe
- PO3-0752: AEMC SR752 1000A 1mV/A Clamp-on Current Probe with termination for 6330 and calibration
- POO-RETRO-HW: Convert Customer supplied current clamp to 6330 termination by replacing connector with 6330 compatible connector and calibration
- DLS: Diamond Level Support

STANDARD ITEMS

From left to right: 6330 Meter Site Analyzer in Pelican Case, Battery Charger, Battery Pack (pre-installed), and 1037-SA Optical Pickup



ADDITIONAL ACCESSORIES

Clockwise from left: Current Cable with Duckbill Probes; Voltage Set; Rogowski Current Coils in Red, Yellow, and Blue; EZ-Hook Fused Current Jumpers; EZ-Hook Test Clip with Safety Fuse; Rogowski Current Coils in Yellow; Dolphin Test Clips; Vehicle Charger; Spare Battery in Desktop Stand Alone Battery Charger; and 290 Test Switch Adapter which comes in several versions to test different terminal configurations: 290-13T, the 290-8T, the 290-6T4S, and the 290-6T3S.



ACCURACY

VOLTAGE
CURRENT
PHASE
W, WHrs
VA, VAHrs
VAR, VARHrs
PROBE CHANNELS

±0.02% (50V to 650V)
 ±0.02% (0.1A to 21A)
 ±0.005 DEGREES
 ±0.04%
 ±0.04% (conformance to definitions)
 ±0.04% (conformance to definitions)
 ±0.05% plus probe uncertainty

MEASUREMENT CAPABILITIES

VOLTAGE 3 Channels 0.05 to 650 VAC isolated; for full accuracy voltage range is 50V to 650 V (920V peak)
CURRENT 3 Channels 0.001 to 21 Amps fully isolated; for full accuracy current range is 0.1A to 21A (30A peak)
PROBES 3 Channels ±0.001 to 2.0 volts peak. When used with TESCO branded Rogowski coils, a dynamic range in excess of 1000:1 is achieved. Standard range for coils is 5 to 5000.
ADMITTANCE Admittance measurement
POWER Active Energy, Reactive Energy, Apparent Energy
HARMONICS Harmonics to the 50th

PHYSICAL

CASE Pelican® AIR 1485 case, 18.2" x 13.9" x 6.7", water resistant
WEIGHT 17.8 lbs. with basic items needed in the field
FRONT PANEL Membrane
DISPLAY 7" super high contrast, 1000nit color display with bonded glass optical filter/protector
I/O Ethernet
 4x USB 2.0 Type A (peripherals such as keyboard, mouse, memory stick, barcode scanner)
 1X USB 2.0 Type B (connection to PC)
 Pulse Pickup/Optical Communications/Pulse In/Pulse Out Connector
 DB9M
 3X Probe Inputs with auto-recognition, auto read of calibration
 Safety 4mm sockets for VA, VB, VC, Neutral
 Locking connector for three 20A current channels
POWER 99.6Whr Battery, no power from site needed even in load box mode
 Easily replaceable battery/swap out quickly
 Greater than 8 hours continuous operation on a single charge
AUX POWER 15VDC to 19.2VDC
 Rapid charging using AC or 12V power
GPS Integrated GPS locator
CABLES Designed to remain connected at all times

METER SITE ANALYZER TEST SCREENS

