

# 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:  $\pm 0.005$  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 vast 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:**

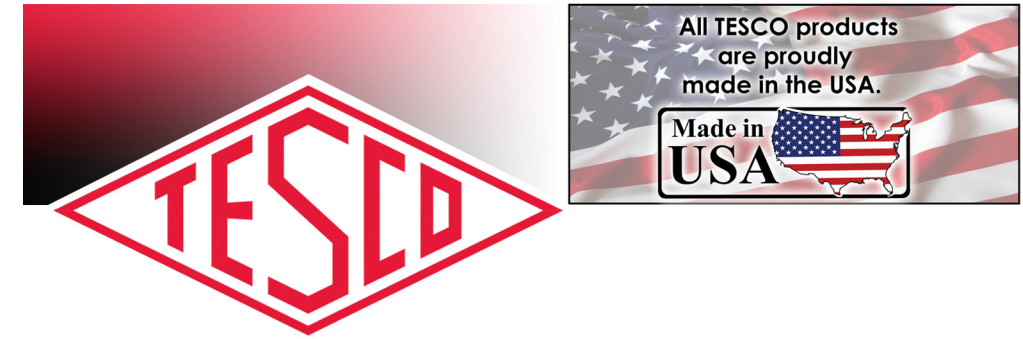
- Harmonic analysis up to 50th
- Voltage, Current, Power Factor, VA, VAR, Watts, Vah, VARh, kWh, THD, Frequency, Phase Rotation
- Waveform Recording
- Phasor Diagrams

**TESCO**

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FIELD TESTING

Catalog No.

# 6330

METER SITE ANALYZER



**ISSUE SOLVED**

Need an all-in-one field test kit? **TESCO's Meter Site Analyzer** is the most versatile and complete tool for testing the entire functionality of transformer-rated metering installations in a convenient, portable, and ULTRA lightweight kit – **only 17.8 lbs!**

## SPECIFICATIONS

### Standard Unit:

- 6330 TESCO Meter Site Analyzer
- B00-0001: 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:

- CJ0-6330-001: Current Jumpers, 1.64 ft. terminates in Alligator Clips, set of 3, black
- CJ0-6330-02: 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:

- P01-0040-RYB: Set of Rogowski Current Probes, 5-5000A, 40 in. long, 305mm aperture, RED/YELLOW/BLUE with Calibration
  1. P01-0040-R: Red only with Calibration
  2. P01-0040-Y: Yellow only with Calibration
  3. P01-0040-B: Blue only with Calibration
- P01-0016-RYB: Set of Rogowski Current Probes, 5-5000A, 16 in. long, 120mm aperture, RED/YELLOW/BLUE with Calibration
  1. P01-0016-R: Red only with Calibration
  2. P01-0016-Y: Yellow only with Calibration
  3. P01-0016-B: Blue only with Calibration

#### Optional accessories:

- B00-0001: 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
- P02-0163-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 P02-0163 25 ft. or 50 ft. (Male BNC to Male BNC)
- POO-RETRO-BNC: Female BNC to 6330 adapter including calibration of customer supplied probe
- P03-0752: 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

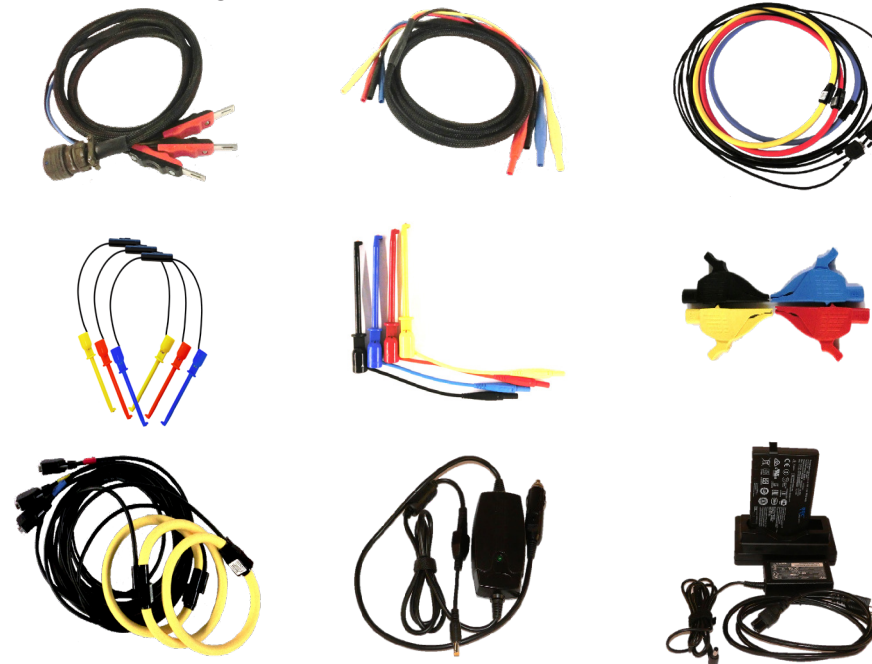
## STANDARD ITEMS

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



## ADDITIONAL ITEMS

Clockwise from top left: Current Cable with Duckbill Probes, Voltage Cable Set, Rogowski Current Coils in Red, Yellow, Blue, EZ-Hook Fused Current Jumpers, EZ-Hook Test Clip with Safety fuse, Dolphin Test Clips, Rogowski Current Coils in Yellow, Vehicle Charger, and Spare Battery in Desktop Stand alone Battery Charger.



## 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 DISPLAY** Membrane  
 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

