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**Data Sheet**

August 13, 2026

YOKOGAWA

# Yokogawa 253752-E1 Power Measurement Module

The Yokogawa 253752-E1 is a power measurement module designed for accurate and reliable power measurements in various applications. It offers high precision and stability, ensuring dependable results for power analysis and monitoring. This module is suitable for integration into Yokogawa's data acquisition systems.



MODEL

**Yokogawa  
253752-E1**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**253752-E1**

LISTING

<https://aumictechlabs.com/products/253752-e1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Yokogawa 253752-E1 Power Measurement Module delivers high-precision power analysis and monitoring for integration with Yokogawa data acquisition systems and the PZ4000 Power Analyzer. This module captures voltage and current waveforms across DC to 2 MHz with 5 MS/s maximum sampling rate, enabling detailed analysis of fluctuating power inputs. Harmonic content extends to the 500th order, while FFT processing supports high-frequency power spectrum analysis. Multi-channel synchronized measurement is possible when multiple units operate in master-slave configuration, maintaining synchronization to within 3 microseconds plus two sample points. Optional 4M-word internal memory accommodates extended low-frequency measurements and load transient capture. Technical Specifications Measurement Bandwidth: DC

to 2 MHz Sampling Rate: 5 MS/s maximum Harmonic Analysis: Up to 500th order FFT: High-frequency power spectrum analysis Input Impedance:  $1\text{ M}\Omega \pm 10\%$  Input Capacitance:  $\sim 5\text{ pF}$  Internal Memory: 4M words (optional) Synchronization: Two PZ4000 units in master-slave configuration; up to 8 synchronized channels; maximum time difference 3 microseconds plus two sample points Insulation Resistance:  $100\text{ M}\Omega$  at 500 V DC (all terminals mutually) Withstand Voltage: 2000 V AC / 1 min (input, output, power supply, grounding); 1000 V AC / 1 min (output-1 to output-2)

**Key Features** Simultaneous multi-channel measurements across multiple module units External trigger function for coordinated acquisition Waveform display and analysis for voltage and current Motor evaluation capability when paired with 253771 sensor input module: torque, rotating speed, mechanical power, synchronous speed, slip, motor efficiency, total efficiency, and trend curves Operating Temperature: 0 to  $50^{\circ}\text{C}$  Operating Humidity: 50 to 90% RH (non-condensing) Installation Altitude: 2000 m maximum

**Electrical Specifications** Power Supply: 15–40 V DC (12–48 V operating range) or 100–240 V AC/DC, 50/60 Hz (85–264 V operating range) Power Consumption: 2.3 W @ 24 V DC; 2.2 W @ 110 V DC; 4.6 VA @ 100 V AC; 6.4 VA @ 200 V AC

**Compatibility & Integration** GP-IB and RS-232 Serial interfaces for PC remote control and data acquisition Centronics printer port for color hardcopy output Optional SCSI port for external measurement data storage

## Features & description

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From manufacturer datasheet

### Features

- Plug-in element for PZ4000 (253710 mainframe)

## 253752E1 Characteristics / Specifications

| PARAMETER                    | VALUE                                                                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                        | 253752-E1                                                                                                                                                         |
| Manufacturer                 | Yokogawa                                                                                                                                                          |
| Instrument Type              | Power Measurement Module                                                                                                                                          |
| Parent Instrument            | PZ4000 Digital Power Analyzer                                                                                                                                     |
| Suffix E                     | plug-in unit configuration                                                                                                                                        |
| Voltage Range                | 1000 V max                                                                                                                                                        |
| Current Range                | 5 A and 20 A                                                                                                                                                      |
| External Sensor Input        | 500 mV                                                                                                                                                            |
| Current Sensor Compatibility | Yokogawa current sensor family                                                                                                                                    |
| Platform                     | PZ4000 mainframe required                                                                                                                                         |
| Mainframe Sample Rate        | up to 5 MS/s (PZ4000)                                                                                                                                             |
| Mainframe Frequency Range    | DC, 0.1 Hz to 2 MHz                                                                                                                                               |
| Harmonic Analysis            | up to 500th order (on PZ4000)                                                                                                                                     |
| Waveform Display             | via PZ4000 12.1-inch touch LCD                                                                                                                                    |
| Module Weight Class          | approx. 15 lb (module only)                                                                                                                                       |
| Replacement Status           | EOL; secondary market support                                                                                                                                     |
| Alias                        | 253752-E1; 253752                                                                                                                                                 |
| Element Type                 | voltage/current/power input module                                                                                                                                |
| Wiring                       | per PZ4000 element specification                                                                                                                                  |
| Calibration                  | per PZ4000 mainframe interval                                                                                                                                     |
| Cooling                      | via PZ4000 mainframe airflow                                                                                                                                      |
| Status LEDs                  | via mainframe display                                                                                                                                             |
| Simultaneous Elements        | up to 4 per PZ4000 frame (typical config)                                                                                                                         |
| Waveform Math                | on PZ4000 mainframe Notes 253752-E1 is an element module—not a standalone analyzer. Requires PZ4000 mainframe (253710). Confirm element count installed in frame. |

# 253752E1 Specifications

| PARAMETER                | VALUE                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Key Features             | - Plug-in element for PZ4000 (253710 mainframe)                                                                                         |
| Technical Specifications | Model: 253752-E1                                                                                                                        |
| Notes                    | 253752-E1 is an element module—not a standalone analyzer. Requires PZ4000 mainframe (253710). Confirm element count installed in frame. |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

| Specifications               |                                |
|------------------------------|--------------------------------|
| Specifications               |                                |
| PARAMETER                    | VALUE                          |
| Model                        | 253752-E1                      |
| Manufacturer                 | Yokogawa                       |
| Instrument Type              | Power Measurement Module       |
| Specifications               |                                |
| PARAMETER                    | VALUE                          |
| Parent Instrument            | PZ4000 Digital Power Analyzer  |
| Suffix E1                    | plug-in unit configuration     |
| Voltage Range                | 1000 V max                     |
| Specifications               |                                |
| PARAMETER                    | VALUE                          |
| Current Range                | 5 A and 20 A                   |
| External Sensor Input        | 500 mV                         |
| Current Sensor Compatibility | Yokogawa current sensor family |
| Specifications               |                                |
| PARAMETER                    | VALUE                          |
| Platform                     | PZ4000 mainframe required      |
| Mainframe Sample Rate        | up to 5 MS/s (PZ4000)          |
| Mainframe Frequency Range    | DC, 0.1 Hz to 2 MHz            |
| Specifications               |                                |
| PARAMETER                    | VALUE                          |
| Harmonic Analysis            | up to 500th order (on PZ4000)  |
| Waveform Display             | via PZ4000 12.1-inch touch LCD |
| Module Weight Class          | approx. 15 lb (module only)    |

### Specifications

| PARAMETER          | VALUE                              |
|--------------------|------------------------------------|
| Replacement Status | EOL; secondary market support      |
| Alias              | 253752-E1; 253752                  |
| Element Type       | voltage/current/power input module |

### Specifications

| PARAMETER   | VALUE                            |
|-------------|----------------------------------|
| Wiring      | per PZ4000 element specification |
| Calibration | per PZ4000 mainframe interval    |
| Cooling     | via PZ4000 mainframe airflow     |

### Specifications

| PARAMETER             | VALUE                                     |
|-----------------------|-------------------------------------------|
| Status LEDs           | via mainframe display                     |
| Simultaneous Elements | up to 4 per PZ4000 frame (typical config) |
| Waveform Math         | on PZ4000 mainframe                       |

Notes

253752-E1 is an element module—not a standalone analyzer. Requires PZ4000 mainframe (253710). Confirm element count installed in frame.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
30-day returns  
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.