VTEKE®

SAMPLE EDITION

Power Quality and Energy — Sample edition

Category catalog · 2026 — built from the product data VTEKE maintain for the website, to show how the catalog downloads. The official catalog will replace it.

4	1	2026
Products	Category	Edition



Category catalog · 2026

Power Quality and Energy

4 products · Energy Analyzers

Energy Analyzers



REPRESENTATIVE IMAGE

EA-4DIN

EA-4DIN Three-Phase Energy Analyzer, Din Rail Type

The VTEKE compact three-phase energy analyzer is designed for measurement and monitoring of electrical parameters in low- and medium-voltage electrical systems. It measures voltage, current, frequency, active and reactive power, power factor, energy, and harmonic components.

KEY FEATURES

- Three-phase electrical measurement and energy monitoring
- Active and reactive power measurement
- Active and reactive energy measurement
- Power factor measurement
- Voltage and current harmonics up to the 31st harmonic
- Frequency measurement
- RS485 Modbus RTU communication
- 2 relay outputs
- 1 digital input
- Internal memory for energy values and demand records
- Configurable CT and VT ratios
- Password-protected menu
- 53 × 31 mm custom-design glass LCD
- Supports 3P4W connection

SPECIFICATIONS

MEASUREMENT CHARACTERISTICS	
Voltage Measurement	Phase-to-phase, Phase-to-neutral
Current Measurement	I1, I2, I3
Frequency	F1, F2, F3
Active Power	P1, P2, P3
Reactive Power	Q1, Q2, Q3
Apparent Power	S1, S2, S3
Power Factor	Per phase
Active Energy	ΣkWh (Import & Export)
Reactive Energy	ΣkVArh (Inductive & Capacitive)
Voltage Harmonics	Up to 31st harmonic
Current Harmonics	Up to 31st harmonic
Voltage / Current Accuracy	±0.5%
Active Energy Accuracy	±1%
Reactive Energy Accuracy	±2%
ELECTRICAL CHARACTERISTICS	
Operating Voltage	85–240 V AC
Operating Frequency	50/60 Hz
Operating Power	<10 VA
Voltage Input	5–330 V AC

Voltage Measuring Range	5 V–330 kV
Current Input	10 mA–5.5 A
Current Measuring Range	10 mA–5500 A
Current Transformer Ratio	1–1000
Voltage Transformer Ratio	1.0–9999
Supported Connection	3P4W
COMMUNICATION & FUNCTIONS	
Communication	RS485 Modbus RTU
Relay Output	2 × 3 A / 250 V AC (Resistive Load)
Digital Input	1 × 9–24 V DC
Memory	Energy values and demand records can be deleted
Password Protection	Menu is password protected
DISPLAY & MECHANICAL CHARACTERISTICS	
Display	53 × 31 mm Glass LCD
Connection Type	Plug-in Terminal Connection
Cable Cross-Section	1.5 mm²
Weight	<300 g
Protection Degree	IP20
ENVIRONMENTAL CHARACTERISTICS	
Operating Temperature	-20°C to +55°C
Operating Altitude	<2000 m



REPRESENTATIVE IMAGE

EA-C1

EA-C1 Three-Phase Energy Analyzer

The VTEKE EA-C1 is a three-phase panel-mounted energy analyzer designed for comprehensive measurement and monitoring of electrical parameters in low- and medium-voltage electrical systems. It measures voltage, current, frequency, active, reactive and apparent power, power factor, energy, and harmonic components.

KEY FEATURES

- Three-phase electrical measurement and energy monitoring
- Active, reactive and apparent power measurement
- Active and reactive energy measurement
- True power factor and cos ϕ measurement
- Voltage and current harmonics up to the 31st harmonic
- Total Harmonic Distortion measurement (THD-V and THD-I)
- Frequency measurement

SPECIFICATIONS

MEASUREMENT CHARACTERISTICS	
Voltage Measurement	Phase-to-phase, Phase-to-neutral
Current Measurement	I1, I2, I3, ΣI
Frequency	F1, F2, F3
Active Power	P1, P2, P3
Reactive Power	Q1, Q2, Q3
Apparent Power	S1, S2, S3
Power Factor	True PF, cos ϕ of each phase
Active Energy	ΣkWh

- Demand, event and electrical data recording
- Internal memory for records and event logs
- RS485 Modbus RTU communication
- Adjustable relay output
- Configurable CT and VT ratios
- Password-protected menu
- 96 × 96 mm panel-mounted design

Reactive Energy	ΣkVArh (Inductive & Capacitive)
Total Harmonic Distortion	THD-V, THD-I
Voltage Harmonics	Up to 31st harmonic (L-N and L-L)
Current Harmonics	Up to 31st harmonic
Voltage / Current Accuracy	±0.5%
Active Energy Accuracy	±1%
Reactive Energy Accuracy	±2%
ELECTRICAL CHARACTERISTICS	
Operating Voltage	85–240 V AC
Operating Frequency	50/60 Hz
Operating Power	<10 VA
Input Voltage (L-N)	5–330 V AC
Voltage Measuring Range	5 V–330 kV
Input Current	10 mA–5.5 A
Current Measuring Range	10 mA–5500 A
Current Transformer Ratio	1–1000
Voltage Transformer Ratio	1.0–9999
Supported Connection	3P4W
COMMUNICATION & FUNCTIONS	
Communication	RS485 Modbus RTU
Relay Output	Adjustable
Memory	Voltage and current event values, demands, records and event logs
Password Protection	Menu is password protected
MECHANICAL CHARACTERISTICS	
Panel Size	96 × 96 mm
Panel Cut-Out	91 × 91 mm
Connection Type	Plug-in Terminal Connection
Cable Cross-Section	1.5 mm²
Mounting	Front panel mounting
Weight	<300 g
Protection Degree	IP41 Front Panel / IP20 Body
ENVIRONMENTAL CHARACTERISTICS	
Operating Temperature	-20°C to +55°C
Working Altitude	<2000 m



REPRESENTATIVE IMAGE

EA-C4

EA-C4 Three-Phase Energy Analyzer

The VTEKE EA-C4 is a three-phase panel-mounted energy analyzer designed for comprehensive measurement and monitoring of electrical parameters in low- and medium-voltage electrical systems. It measures voltage, current, frequency, active, reactive and apparent power, power factor, energy, and harmonic components.

KEY FEATURES

- Three-phase electrical measurement and energy monitoring
- Active, reactive and apparent power measurement
- Import and export active energy measurement
- Inductive and capacitive reactive energy measurement
- True power factor and cos ϕ measurement
- Voltage and current harmonics up to the 31st harmonic
- Total Harmonic Distortion measurement (THD-V and THD-I)
- Frequency measurement
- Demand recording
- RS485 Modbus RTU communication
- Adjustable relay output
- Configurable CT and VT ratios
- Password-protected menu
- Custom-design glass LCD
- 96 × 96 mm panel-mounted design

SPECIFICATIONS

MEASUREMENT CHARACTERISTICS	
Voltage Measurement	Phase-to-phase, Phase-to-neutral
Current Measurement	I1, I2, I3
Frequency	F1, F2, F3
Active Power	P1, P2, P3
Reactive Power	Q1, Q2, Q3
Apparent Power	S1, S2, S3
Power Factor	True PF, cos ϕ of each phase
Active Energy	ΣkWh (Import & Export)
Reactive Energy	ΣkVArh (Inductive & Capacitive)
Total Harmonic Distortion	THD-V, THD-I
Voltage Harmonics	Up to 31st harmonic (L-N and L-L)
Current Harmonics	Up to 31st harmonic
Voltage / Current Accuracy	±0.5%
Active Energy Accuracy	±1%
Reactive Energy Accuracy	±2%
ELECTRICAL CHARACTERISTICS	
Operating Voltage	85–240 V AC
Operating Frequency	50/60 Hz
Operating Power	<10 VA
Input Voltage (L-N)	5–330 V AC
Voltage Measuring Range	5 V–330 kV
Input Current	1 mA–5.5 A
Current Measuring Range	1 mA–50,000 A
Current Transformer Ratio	1–1000
Voltage Transformer Ratio	1.0–9999
Supported Connection	3P3W
COMMUNICATION & FUNCTIONS	
Communication	RS485 Modbus RTU
Relay Output	Adjustable
Contact Input	3 A / 250 V AC (Resistive Load)
Memory	Energy and demand records can be deleted

Password Protection	Menu is password protected
DISPLAY & MECHANICAL CHARACTERISTICS	
Display	71.5 × 61.5 mm Custom Design Glass LCD
Panel Size	96 × 96 mm
Panel Cut-Out	91 × 91 mm
Connection Type	Plug-in Terminal Connection
Cable Cross-Section	1.5 mm²
Weight	<300 g
Protection Degree	IP54 Front Panel / IP20 Body
ENVIRONMENTAL CHARACTERISTICS	
Operating Temperature	-20°C to +55°C



REPRESENTATIVE IMAGE

EA-C5

EA-C5 Three-Phase Energy Analyzer

The VTEKE EA-C5 is an advanced three-phase panel-mounted energy analyzer designed for comprehensive measurement, energy monitoring and power quality monitoring in low- and medium-voltage electrical systems. It measures voltage, current, frequency, active, reactive and apparent power, power factor, energy, and harmonic components up to the 55th harmonic.

KEY FEATURES

- Three-phase electrical measurement and energy monitoring
- Active, reactive and apparent power measurement
- Import and export active energy measurement
- Inductive and capacitive reactive energy measurement
- True power factor and cos ϕ measurement
- Voltage and current harmonics up to the 55th harmonic
- Total Harmonic Distortion measurement (THD-V and THD-I)
- Frequency measurement
- Demand monitoring and recording
- Event logging for electrical parameters and THD limits
- Real-time clock with date and time setting
- RS485 Modbus RTU communication
- 2 adjustable relay outputs
- 1 digital input
- Configurable CT and VT ratios

SPECIFICATIONS

MEASUREMENT CHARACTERISTICS	
Voltage Measurement	Phase-to-phase, Phase-to-neutral
Current Measurement	I1, I2, I3, ΣI
Frequency	F1, F2, F3
Active Power	P1, P2, P3, ΣP
Reactive Power	Q1, Q2, Q3, ΣQ
Apparent Power	S1, S2, S3, ΣS
Power Factor	True PF, cos ϕ of each phase
Active Energy	ΣkWh (Import & Export)
Reactive Energy	ΣkVArh (Inductive & Capacitive)
Total Harmonic Distortion	THD-V, THD-I
Voltage Harmonics	Up to 55th harmonic (L-N and L-L)
Current Harmonics	Up to 55th harmonic
Voltage / Current Accuracy	±0.2%
Active Energy Accuracy	±0.5%
Reactive Energy Accuracy	±1%
ELECTRICAL CHARACTERISTICS	
Operating Voltage	85–240 V AC

- Internal memory for energy, demand and event records
- Password-protected menu
- Custom-design glass LCD
- 96 × 96 mm panel-mounted design

Operating Frequency	50/60 Hz
Operating Power	<10 VA
Input Voltage (L-N)	1–330 V AC
Voltage Measuring Range	1 V–600 kV
Input Current	1 mA–5.5 A
Current Measuring Range	1 mA–50,000 A
Current Transformer Ratio	1–5000
Voltage Transformer Ratio	1.0–9999
Supported Connection	3P4W
COMMUNICATION & FUNCTIONS	
Communication	RS485 Modbus RTU
Relay Output	2 Adjustable Relay Outputs
Relay Contact Rating	2 A / 250 V AC (Resistive Load)
Digital Input	9–24 V DC
Event Logs	High/low voltage, power interruption, voltage/current imbalances, high current, THD-V and THD-I limits
Real-Time Clock	Date and time can be set
Memory	Energy values, demand records and event logs can be deleted
Password Protection	Menu is password protected
DISPLAY & MECHANICAL CHARACTERISTICS	
Display	71.5 × 61.5 mm Custom Design Glass LCD
Panel Size	96 × 96 mm
Panel Cut-Out	91 × 91 mm
Cable Cross-Section	1.5 mm²
Protection Degree	IP41 Front Panel / IP20 Body
ENVIRONMENTAL CHARACTERISTICS	
Operating Temperature	-20°C to +55°C