Accuchek-1

Single phase meter testing equipment

Intuitive operation

Best in class accuracy

Revenue integrity

Supports both static and electro-mechanical meter types

Accuchek-1 is a portable unit for on-site accuracy testing of single-phase energy meters. It is easy to use and computes metering errors automatically, making it ideal for utilities and service industries.

Application

- On-site testing of digital and electromechanical single-phase energy meters
- Electrical system health checks

Benefits

- Improved customer satisfaction: no need to disconnect the supply
- Improved revenue integrity and asset utilisation arising from reliable and accurate error measurement
- Improved efficiency: suitable for any type of electricity meter
- Increased productivity: quick and easy to use

Features

- Provides high accuracy: class 0.2 with integral CT, class 0.5 with external clamp CT
- Manual testing using snap switch, or fully automatic via optical detector
- Mini clamp-on CT for meter testing without disconnecting supply
- User-friendly menu-driven display
- Automatic alerts on display for incorrect connections or missing signals
- Extensive storage for test results
- Quick-fit mounting arrangements
- Windows-based software for data upload, analysis and reporting

SECURE
energy together

Accuchek-1

Technical specifications

Electrical

Accuracy	Class 0.2 with integral ring-type CT
	Class 0.5 with external clamp-on CT
Voltage input (1 phase)	240 V AC ±30%
Current range	
Integral Ring CT	200 mA to 10 A
External Clamp-on CT	500 mA to 60 A
Mains frequency	50 Hz ± 5%
Activity indicator	High-intensity red LED

Compliance

Standards	IEC 62053-11 and IEC 62053-22
	S Mark safety certification

Mechanical

Dimensions (W x H x D)	210 × 350 × 40 mm (approx.)
Enclosure case	Engineering plastic
Degree of protection	IP 51
Weight	0.9 kg (approx.)

Environmental

Temperature	-10°C to +55°C (operating)
Humidity	95% non-condensing

Features

Display	20 characters x 2 lines, alphanumeric backlit LCD, controlled via keypad
Display resolution	
Energy	0.0001 Wh
Error	0.01%
Voltage	0.01 V
Current	0.001 A
Communications	RS-232 serial port (8-pin round DIN connector)
Memory capacity	Storage for 200 test results
Optical Sensor	Works with rotor index or LED (flash rate up to 200 Hz)
Remote snap-switch	Hand-held, with flexible cable