

## Electronic Single Phase Meter



## Compact yet advanced domestic metering...

### Features

- ✦ Accuracy Class 1 or Class 2
- ✦ kWh, kVARh and kVAh energy measurement
- ✦ 20 years certified life
- ✦ Large digit multilingual display with chevron information indication
- ✦ Extensive security data
- ✦ Communications as standard
- ✦ High security, compact design
- ✦ BS double insulated, glass filled polycarbonate case
- ✦ Permanently fixed main cover
- ✦ IP51 in accordance with IEC 60529:1989

### Options

- ✦ TOD Six rates with RTC and battery
- ✦ IEC 62056-21 (formerly IEC 61107) optical or LPR communications
- ✦ Extended terminal cover
- ✦ Short terminal cover

The successful range of single phase meters from Elster Metering Systems provide a cost effective solution for six rate domestic applications.

To further enhance security, the main meter cover is permanently secured to the base during the manufacturing process. The meter also provides the optical IEC 62056-21 (formerly IEC 61107) communications and 2.4 GHz LPR communications.

The liquid crystal display has large, high contrast characters that can be viewed from a wide angle. Multiple parameters are displayed with unique identifiers.

The energy registers can be configured for the required number of digits and for the position of the decimal point.

The meter offers high security and detects many of the most commonly used tamper techniques.

Security features of the meter include reverse run log and count; power fail log and elapsed time count; hours in anti-creep and hours since last power up time.

These are stored as security data and can be read via the optical communications ports.

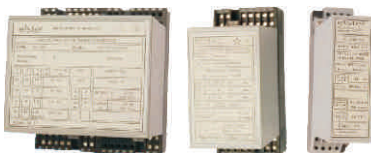
The meter has the option of optical IEC 62056-21 (formerly IEC 61107) or 2.4GHz LPR communications.

Both the methods of communication allow the meter registers and security data to be read electronically from a laptop or hand-held device, greatly reducing the possibility of manual meter reading errors.

The meter can be a simple import meter or for import/export for domestic or small scale generation sites. The meter offers six rate operation. The meter measures reactive and apparent energy in addition to active energy and is ideally suited for utilities who wish to bill or monitor energy consumption based on kvarh or kVAh measurement. The meter also can measure average power factor. Meters can be supplied to meet accuracy Class 1 Of IS13779 requirements.

They are BIS approved, and have an ingress protection of Ip51

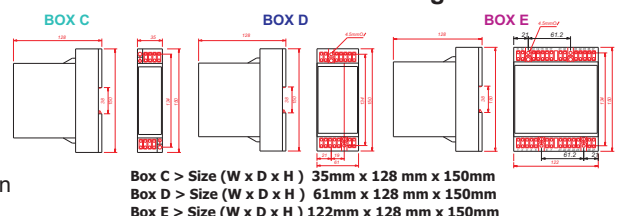
### ELSTER TRANSducers



#### Range of transducers

- ✦ For Currents (AC & DC)
- ✦ For Voltages (AC & DC)
- ✦ For Power-active/reactive
- ✦ For Frequency
- ✦ For Phase angle
- ✦ For Transformer Tap Position

#### Dimensional Drawing



## A1800 ALPHA® meter 150 series CT-rated

Elster has designed the A1800 ALPHA system-ready meter based on extensive metering technology and global metering standards knowledge.

### Technical details

- ✦ IEC 62053 accuracy Class 0.2 % and 0.5 %  
UV-protected, polycarbonate, Ip54 enclosure
- ✦ Wide operating ranges:
- ✦ Voltage: 46 V to 498 V
- ✦ Current rating: 1(10)A, 5(10)A, optional 5(20)A
- ✦ Temperature: -40 °C to +55 °C (ambient)
- ✦ Energy plus demand for kWh, kVARh, and kVAh
- ✦ Four-quadrant metering for export import
- ✦ Up to 4 tariffs per day for 4 day types
- ✦ Up to 12 seasons
- ✦ 256 KB nonvolatile memory
- ✦ Easily replaceable battery located under the terminal cover
- ✦ Precision internal clock with backup timekeeping provided by super capacitor and long-life battery
- ✦ 16-segment character LCD with optional backlight
- ✦ Windows-based software with multilanguage support
- ✦ Optional Read without Power feature ensures the meter can be read when it is not externally powered

### Revenue Protection

- ✦ Terminal and main cover opening detection
- ✦ Site diagnostics
- ✦ History log records all changes in the meter program and meter data
- ✦ Phase voltage outage recording
- ✦ Reverse energy warnings and recording
- ✦ Cumulative demand calculation
- ✦ Positive energy records absolute energy value for each phase individually
- ✦ Write prevention lock
- ✦ Multi-level passwords

### Advanced features and functions

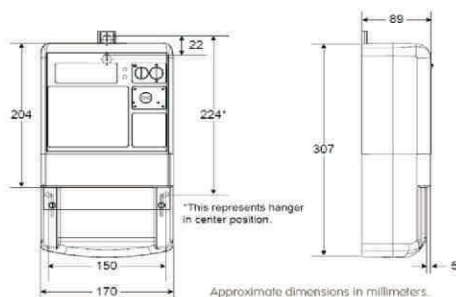
- ✦ Programmable thresholds for TRueQ monitors
- ✦ Optional 1 MB extended memory
- ✦ Transformer and line loss compensation
- ✦ Up to 8 channels of load profile data
- ✦ Up to 32 channels of instrumentation profile data
- ✦ Optional auxiliary power supply

### System-ready meter

- ✦ Communication port with 2 interfaces on the main circuit board
- ✦ 4 pulse output relays on main circuit board
- ✦ Available with RS-232, RS-485, and future communication options developed by Elster and third parties
- ✦ Optional second, independent communication port
- ✦ Optical port available in the ANSI or IEC standard physical configuration
- ✦ ANSI C12.18, C12.19, and C12.21 open protocol support
- ✦ Optional DNP protocol support
- ✦ Optional Modbus support
- ✦ Optional DLMS/COSEM open protocol support



Dimension details



Authorised Channel Partner for:



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