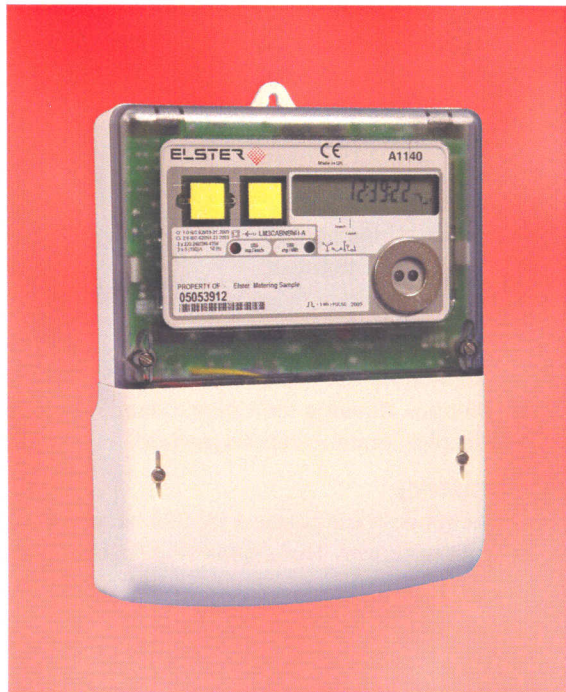


A1120/40

Programmable Electronic Polyphase Meter



Innovative Metering Solutions...

Features

- Accuracy – kWh Class 1 or Class 2
kvarh Class 2 or Class 3
- Modular design to allow future upgrades
- Comprehensive tariff structure
- Instrumentation
- Large digit (9.8mm) display
- IEC 62056-21 communications port
- Internal clock with battery back-up
- 15 year product life
- Extensive security data
- High security, compact design
- 12kV impulse withstand
- Double insulated, polycarbonate case
- Compact design
- IP53 in accordance with IEC 60529:1989

Options

- kWh export, kvarh and kVA
- CT or Direct connected
- Serial communications
- Load profiling (A1140)
- Read without power (using replaceable battery)
- English or OBIS descriptors
- Terminal cover removal detection switch
- Main cover removal detection or CT ratio programming switch
- SO pulsed output (IEC 62053-31)
- Terminal cover with cut-out

The A1120/40 has been designed to meet the changing needs of the Electricity supply industry.

The meter offers a 'modular' solution for remote communications, allowing the meter to be integrated into an AMR system at any time. Flexibility in communications provides the Utility with the means to use the most cost effective communications method. The serial port provides power for a modem removing any requirement for external connections. The modem fits neatly under the terminal cover providing a high degree of protection against fraud or tampering.

Communications are provided via the optical (IEC 62056-21) port and are supported by data stream mode, allowing fast reading of meter data. The A1140 permits up to 90 days of load profile data to be collected in less than 30 seconds. The RJ11 socket provides optional serial communications allowing remote access to the same data. The serial port can be multi-dropped, allowing access to up to 10 meters from a single communications device. A further option allows a pulsed output to be transmitted via the meters' auxiliary terminals.

The meter is available in a number of variants that measure combinations of active, four quadrant reactive energy and kVA. Two customer defined registers can be used to summate energy from any like unit registers. Instrumentation quantities are available to aid installation. These can be included in the display sequence.

The meter offers extensive security data which includes a programming log with user ID. Further security can be provided as an option with terminal cover and main cover removal detection. As an alternative option, the latter detection switch can be used instead to allow the CT ratio to be changed.

The liquid crystal display has large characters that can be viewed from a wide angle. The display sequence is programmable and is supported by two modes of operation, default and utility. Displayed information can use English descriptors or OBIS (Object Identification System) codes.

Main meter variants are configured at manufacture. Power Master Unit software provides a user-friendly Windows™ graphical interface for programming the meter and reading meter data.

Meters can be supplied to meet kWh accuracy Class 1 or 2 requirements and are approved to EN 62053-21. kvarh is to EN 62053-23 Class 2 or 3. The meter has an ingress protection rating of IP53 to IEC 60529:1989.

