



Elster A1700 - Summary Sheet

Summary

The 100 Amp, direct connect A1700 with GSM provides a metering solution for those requiring Code of Practice 5 (COP5) metering applications (see CoP Compliance and Protocol Approval List and Codes of Practice Definitions). COP meters are designed for load profiling and Automated Meter Reading (AMR) on sites consuming large amounts of power, COP5 applies to supplies between 100 kW and 1.0 MW.

The A1700 has class 1 (1%) accuracy as standard, however there are class 0.5 (0.5%) and 0.2 (0.2%) versions available.

This meter has fantastic Time of Use metering capability features including 16 or 32 time-of-use registers, 12 seasons, 24 season changeover dates, 96 switching times and up to 64 exclusion days. In addition to time of use, maximum demand is a measurement that is often applied for tariff purposes. The maximum demand is the largest demand occurring in a demand period during the billing cycle. There are up to 8 maximum demand registers that can measure kW, kVAr and kVA, additionally then the display shows the time and date of when the maximum demand was recorded.

In addition, it's modular build means that a communications module and an input/output module can be fitted. The communication module can be either RS232 or RS485. The inputs module allows the user to read up to 4 devices (sub meters) through the A1700, alternatively the outputs module allows the user to have 7 solid state relays (4 come as standard without a module) and one 5 Amp relay.

This meter is not supplied with a SIM card but a Meter Online SIM can be supplied as an optional extra is required.

SP Wales have developed a programming sheet for customers that wish to have a bespoke set-up. Either call the sales office or request a copy of this to define your requirements.

Product Code

TPWEL1700

Meter Type

Three Phase

Fitting Type

Wall Mount

Max Current (Amps)

100

MID Approved

Yes

Smart

Yes

Input Type

Direct Connect

Output Type

Pulse

Tariffs

Multiple

Import / Export

Import & Export

Availability

Next Day

Condition

New

Brand

Elster

Country of Manufacture

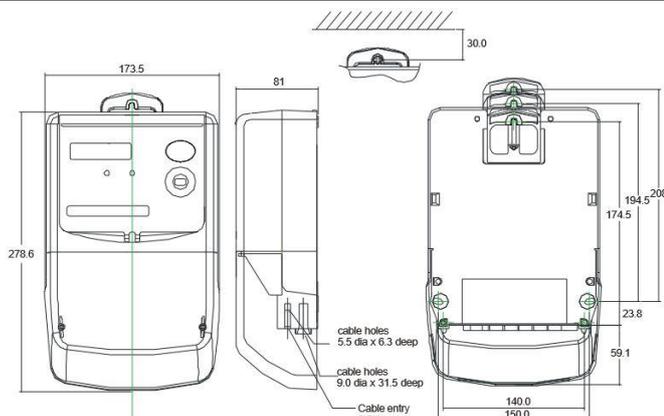
China

Measured Parameters

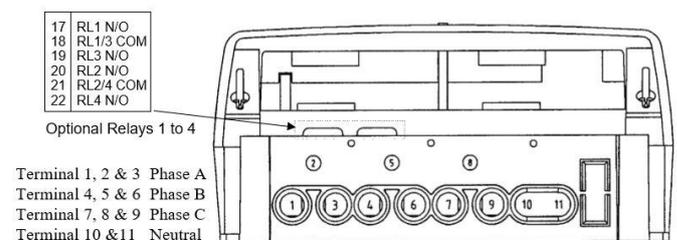
Active Energy (kWh)	✓	Line Power Factor (PF)	✓
Active Power (W)	✓	Line Reactive Power (kVAR) *	✓
Apparent Energy (kVAh) *	✓	Line to Line Voltage (V)	✗
Apparent Power (VA) *	✓	Line to Neutral Voltage (V) *	✓
Average Current (I)	✗	Maximum Current (I)	✗
Average Power Demands (W)	✗	Maximum Power Demands (W)	✓
Average Voltage (V)	✗	Maximum Voltage (V) *	✗
Current (I)	✓	Power Factor (PF)	✓
Current in Neutral (I)	✗	Reactive Energy (kVArh) *	✓
Frequency (Hz)	✓	Reactive Power (VAR) *	✓
Hours Run (hr)	✗	Total Harmonic Distortion (Amps)	✗
Line Active Power (W) *	✓	Total Harmonic Distortion (Volts)	✗
Line Apparent Power (kVA)	✓	Voltage (V)	✓
Line Current (I) *	✓		

* These parameters can be pre-programmed on to the meter as an optional extra.

Dimensions



Wiring Diagram



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