Liberty 116

Single-phase 5 Terminal SMETS2 smart electricity meter







Liberty 116 is a single-phase, single-element SMETS2-compliant electricity meter that is specifically designed to Serve the UK government's mandated smart meter rollout programme.

The five-terminal Liberty 116 smart electricity meter is suitable for use with installations that have switched heating appliances, such as storage heaters, underfloor heating and heat pumps, etc. The 5th terminal enables more advanced power scheduling compared to Economy 7/10 meters.



Application

- Separate 100A auxiliary switch for controlling heat pump, domestic hot water and heating loads
- Small-scale commercial and domestic metering
- SMETS2 compliant electricity meter for use in credit and pay-as-you-go (PAYG) mode

Benefits

- 15+ years product life
- · Quick installation along with auto-join feature
- Supports mains and auxiliary switch remote connection / disconnection
- Maintains user privacy by allowing only authorised access to meter data

Features

- SMETS2 version 4.2, GBCS version 3.2, RED, MID Class B compliant
- ICHIS-compliant meter
- Supports comprehensive tariff: Time of use (TOU), Block and Hybrid
- Keypad with 12 keys allows quick access to the necessary information on the display and local entry of UTRNs, if required, in the absence of PPMID and / or WAN.
- Clear instructive display screens
- COG LCD with multi-line display
- Tamper detection for terminal, meter cover, hub removal and presence of magnet
- Remote firmware upgrade facility



Liberty 116



Technical specifications

-					
	۱۵	ct	rri	COL	
	Ľ	uι	. 1	ical	

Connection type Direct connection

Wiring configuration Single-phase, single-element, two-wire

Voltage and current range Voltage 230 V AC (nom), current range 0.5-10(100) A Active Energy MID Class B, Reactive energy class 2.0

Mains frequency 50 Hz ± 5%

Burden Compliant with EN 50470-1, 3

Contactor 2 x 100A UC3

Compliance

Standards MID Class B, EN 50470-1&3, BS7856, IEC62052-31, RED, DLMS, ZSEP 1.4, CPA

Mechanical

Modular design ICHIS-compliant interface to DCC communication modules

Dimensions 140 (L) x 130(W) x 77(H) (without communication module)

Terminals Brass material, tunnel type with minimum internal bore diameter of 9.5 mm

Weight 0.9 kg (+/- 0.05) approximately Enclosure Flame-retardant polycarbonate

Environmental

Ingress protection IP 54

Insulation class Protective class II

Temperature -25 °C to +55 °C (operating), -25 °C to +70 °C (storage)

Humidity Up to 95% non-condensing

Features

Firmware Remote firmware upgrade

Tariff 48 x standard time of use (TOU) registers 4 x 8 Block registers

Supports Hybrid (combination of TOU and Block) tariff

Load survey 13 months for active import, three months active export, three months

reactive import and export

Display Large dot matrix COG (128*64 pixel) backlit display

Keypad 12 keys 0-9, A, B for local entry of PAYG code and access to displays

PAYG functionality Can be switched to credit or prepayment mode as per remote configuration,

support time based and payment-based debt

Support emergency credit, friendly credit calendar, current and historical

consumption and cost of consumption,

Display of tariff and cumulative consumption register

Tamper Terminal, module and meter cover open detection, magnet detection

Security seal for terminal and meter cover

Communications

Local diagnostic port Optical port for refurbishment purpose (disabled in the field)

HAN ZigBee® 2.4 GHz and supports SEP 1.4

Africa sales africa@securemeters.com

sales australia@securemeters.com

Australia

sales eu@securemeters.com

India sales india@securemeters.com

South East Asia, South Asia sales_sea@securemeters.com

UAE sales_uae@securemeters.com

UK

Europe

sales_uk@securemeters.com

Specifications are subject to change without prior