

Liberty EG4v 10

Smart electronic index gas meter



Installation efficiency



Remote firmware upgrade



Pay as you go (PAYG)

Smart, flexible and reliable

Secure Meters has developed Liberty EG4v 10/11/15 smart gas meter to meet UK smart metering requirements. Liberty EG4v 10/11/15 is based on a proven G4 measurement unit with electronic index and isolation valve. The meter uses ZigBee® radio to provide link with head end system and in home display (IHD) via the smart meter communications hub.

The meter is capable of remote firmware upgrade after installation to allow features and functionality to be changed. EG4v supports both credit and Pay As You Go (PAYG) modes of operation. The meter can be remotely switched between modes through its operational life.



Application

- Smart gas meter with both credit and PAYG modes for:
 - domestic customers
 - small commercial customers

Benefits

- Simple installation, registration and pairing process
- Remotely switchable between credit and PAYG modes
- Assists consumers in reducing energy consumption

Features

- Meets requirements of SMETS1
- Integrated isolation valve
- Slab tariffs and complex/time of use tariffs
- Logging of energy data usage profile, billing data, events including tamper detection
- Credit and PAYG modes (meter maintains account and tariffs)
- Keypad for local entry of PAYG UTRN if HAN not available
- Remote firmware upgrade
- Option to close valve on detection of tamper



Technical specifications

Electrical

Connection type	UK-sized bosses at 6" (152.4 mm) centres
Meter rating	G4 Q_{\min} 0.04m ³ /hr Q_{\max} 6.0m ³ /hr
Working pressure	Up to 0.2 bar
Resolution	0.0012m ³
Gas types	Natural, manufactured or liquid petroleum gas (LPG)

Compliance

Standards	MID Class1.5 EN 1359 ATEX Ex II 3 G Ex ic IIA T6
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Mechanical

Dimensions (W x H x D)	235 mm x 268 mm x 175 mm (Liberty EG4 v 10/11), 227 mm x 262 mm x 188 mm (Liberty EG4v 15)
Weight	3.3 kg (Liberty EG4v 10/11), 2.9 kg (Liberty EG4v 15)
Enclosure	Electronic Index - flame retardant polycarbonate Gas meter - powder coated steel case
Battery	Field-replaceable battery
Isolation valve	Rated for 4000 cycles
Audible alarm	

Environmental

Ingress protection	IP54 (EN60529)
Temperature	-10°C to +40°C (operating), -25°C to +55°C (storage)
Humidity	95% non-condensing

Features

Firmware	Remote upgrade
Tariff	Time of use (TOU) and complex (slab within TOU) supported, Pending tariff structures supported
Load survey	3 months (13 months in smart meter communications hub)
Display	Backlit 10-character alphanumeric starburst display with icons for status
Keypad	12 way - 0-9, A, B for local entry of PAYG code and access to displays
PAYG functionality	Credit and PAYG modes (meter maintains account and tariffs) Display of current and historical consumption with cost of consumption data Emergency credit Friendly credit (avoids disconnection during unsocial hours or weekends) Debt recovery
Security	AES128 encryption
Battery life	15 years depending on operating mode Low battery warning raised near end of life
Isolation valve	Option for detection of excessive flow at valve opening and immediate closure Option for local customer acknowledgment before opening
Alarms	Alarm flag raised in event of meter tilt, excessive magnetic tamper, battery cover open

Communication

Local diagnostic port	Optical 1107 hardware-compatible port
Communication	ZigBee HAN (SEP 1.x)

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