

Smart1 Meter

Smart-Ready™ or Smart-Now, you choose

Introducing Bglobal Smart1, the world's first truly Smart-Ready™ electricity meter.



Smart-Ready™



**Retrofit
Top Hat™**



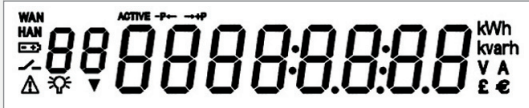
Smart-Now

- ▶ Single phase electronic MID and COP10 meter with wireless modem interface (patent pending)
- ▶ Designed for UK mass market SME and residential use
- ▶ Communications agnostic modular design protecting from future communications change risk
- ▶ Low-cost upgrade path from Smart-Ready™ to fully-smart (retrofit without de-energisation)
- ▶ Designed by Bglobal Metering with EDM I Inside
- ▶ Credit / Prepayment / PAYG
- ▶ Flexible deployment options:
 - Smart-Ready™ (dumb replacement)
 - Smart-Ready™ with ZigBee and IHD (real time customer display)
 - Smart-Now with ZigBee, IHD, backhaul communications Top Hat™ (AMR /AMI)
- ▶ Available now: Smart1 with G1 Top Hat™ (MID and COP10 compliant, ZigBee-enabled GPRS AMR/AMI meter)

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Requirement	Compliance
Standards Compliance	IEC62052-11 (2003), IEC62053-21 (2003), IEC62053-23(2003), IEC62052-21 (2004), IEC62054-21 (2004), EN50470-1, EN50470-3
MID & COP Compliance	EC Directive 2004/22/EC on Measuring Instruments Annex B (MID) Code of Practice 10
Accuracy Class	Class 1 & 2 (MID Classes A or B)
Current Rating	10(100)A
Voltage Rating	230V (400V) (Operating Range 184V – 276V)
Frequency	50 Hz (Range 45 – 55 Hz)
Burden	Voltage: < 2W and < 10VA Current: < 2.5VA
Energy Values	Import kWh, Export kWh, Import kvarh, Export kvarh, Import kVAh, Export kVAh
Other Measured Values	Instantaneous Power: W, var & VA RMS Voltage & RMS Current Power Factor, Frequency & Phasor Angle
Time of Use	Up to 8 Rates Weekday and Weekend day types Maximum Demand and Time of Maximum Demand recorded for Import kWh and Import kVAh Total and Billing Total Values stored for all energy types
Load Profile	Up to 4 Channels 15 or 30 minute Interval 90 Days storage of 4 Channel, 15 minute data
Supply Disconnect	100A Mains Disconnect Controlled via Prepayment Mode or Remote Communication
Load Management	2A, 240V Load Relay to drive an external contactor Controlled via TOU System or Remote Communication
Local Communications	Electrically Compliant IEC62056-21 Flag Port Optional Internal ZigBee Radio for LAN/HAN
Remote Communications – Top Hat Interface	<ul style="list-style-type: none"> Isolated Optical Serial Port Mechanically Protected 240V Supply Allows fitting of Smart1 Top Hat devices Perfect for retrofit, no need to power down the meter G1 Top Hat (GPRS) released, GZ1 Top Hat (GPRS + ZigBee) under development
Pulsing	1 x Pulsing LED - kWh
Liquid Crystal Display	Fully configurable display including: <ul style="list-style-type: none"> Energy Consumption Remaining Credit (prepayment) Instantaneous Values Other diagnostic values (Communication and Relay Enunciators) 
Time Clock	Accuracy within 15 seconds per month (IEC 62054-21) Backup battery of 15 years without power Supports Daylight Savings Time (DST)
Security	5 Distinct Levels of Security Up to 2 Users per level
Environmental	Specified Operating Range: -25°C - 60°C Limit Range of Operation: -40°C - 70°C Relative Humidity of up to 95% non-condensing IP54 Rated
Terminals	Two brass screw pinch contact mechanism, fully compliant with BS7856
Dimensions	200mm (H) x 130mm (W) x 55mm (D) – Smart-Ready™ 230mm (H) x 130mm (W) x 55mm (D) – Smart-Now
Manufacturing	<ul style="list-style-type: none"> MI-003 EC Directive 2004/22/EC Annex D IEC17025 Compliant Calibration ISO9001 Quality Manufacturing 