

## HS100 – The Smart Electricity Meter

The HS100 Smart electricity meter from Honeywell Smart Energy is supplied with HM100 2G or 3G modems to help our customers implement Smart Electricity Metering projects in an easy and cost effective manner. This meter & modem combination provides a connected solution that will enable utility operations to run more effectively, reliably, safely, and cost-effectively.

When used in conjunction with Honeywell's supplied software solutions our customers can easily now implement advanced Smart Metering, Revenue Protection and Thin Prepayment Solutions improving operational performance and the Utilities bottom line in the process.

The HS100 is suitable for four quadrant metering applications and is rated for 5(100)A direct connect applications and provides full measurement capabilities and includes an internal contactor that can be controlled remotely to disconnect the supply in the case of any tampering attempts or it can also be used for thin smart prepayment solutions.

This meter provides a powerful combination of features that will enable utilities to rapidly identify, quantify and ultimately minimise Non-Technical Losses.



## FEATURES & BENEFITS

- HS100 (5)100A Direct Connect
- HM100 2G & 3G Modem options
- kWh, kvarh & kVAh import/export 4 quadrant measurement
- Accuracy Class 1.0 kWh IEC62053-21 & Class 2.0 kvarh IEC62053:23
- Comprehensive Tariff recording capability
- LCD Display (Auto & Manual modes) & Read without Power Capability
- Over the Air (OTA) firmware upgrade capable
- Internal Contactor for remote connect, disconnect & load limiting (Optional)
- DLMS approved Protocol
- RS485 communication (Multi-Drop up to 32 devices over 1.2 km)
- Load Profile memory up to 100 days for 4 channels with 30 min Internal
- 12 Months Billing History Data for 20 selectable objects
- Extensive Tamper detection & logging
- Clock & calendar battery back-up for ten years and field replaceable
- 10-year operating Life

## Tariff

The HS100 provides two tariff tables, one active and the second passive for future activation. These provide 4 TOU tariff rates for all billing and maximum demand quantities that can have 12 seasons and 50 special days defined. Each table can be defined with 10 switching times.

## HS100 Meter Communication interfaces

- HM100 2G Modem
- HM100 3G Modem
- Internal RS485 port (multi-drop 32 devices over 1.2 km)
- Optical Port
- For ongoing Module Developments - contact Honeywell



TECHNICAL SPECIFICATIONS	
SYSTEM	1 Phase 2 Wire Direct Connect
SYSTEM VOLTAGE	230V (P-N) +20% to -20% 220 – 240V options
CURRENT RATING IB	5A
CURRENT RATING IMAX	100A
STARTING CURRENT	0.4% Ib
FREQUENCY	50 Hz or 60 Hz +/- 2%
2 METROLOGY LED PULSE VALUE	2000 impulses per kWh 2000 impulses per kVarh
1 ALARM LED	Tamper activated
NORMAL OPERATING TEMPERATURE	-25°C to +60°C
EXTREME OPERATING TEMPERATURE	-40°C to +70°C
STORAGE & TRANSPORTATION TEMPERATURE	-45°C to +80°C
HUMIDITY	Up to 95% RH (Non-condensing)
POWER CONSUMPTION: METER ONLY	Voltage circuit 0.8W, Current Circuit 8VA
METER AND COMMS MODULE	Voltage circuit 1.2W, Current Circuit 10VA
ACCURACY	Class 1.0 kWh Class 2.0 kvarh

TECHNICAL SPECIFICATIONS	
CLOCK ACCURACY	5 ppm = 0.5 Sec/day at 23 deg C.
BATTERY CLOCK SUPPORT (ON THE SHELF)	10 years (Replaceable)
MOUNTING	House Service (Wall)
INTEGRATION PERIOD	Programmable 1-60 minutes
PROGRAMMABLE DISPLAY SEQUENCE	With Backlight Configurable Displays List
CHARACTER SIZE DIGITS	10mm x 5 mm 8 Digits
READ WITHOUT POWER	Supported
MEMORY: - PROGRAMMABLE LOAD PROFILE	4 Channels 100 Days (30 Min) 12 Sets
BILLING PROFILE (MONTHLY)	Standard, Tamper, Contactor & Power Quality – all configurable
EVENTS LOGS	
INGRESS PROTECTION	IP54
OTHER ELECTRICAL PARAMETERS	Conform to IEC Standards
INSULATION	4 kV
IMPULSE	10kV
VOLTAGE AC	4 kV
SIZE	Length 244 x width x 137 x depth 76 (mm)

### For more information

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