Honeywell Domestic

Elster

Single Phase Smart Meter

Brief Description

The AMI domestic Smart Meter offers multi-tariff metering and flexible modular communications to interface directly to the utility via a Wide Area Network (WAN) or Local Area Network (LAN) and to connect to a consumer's Home Automation Network (HAN).

The module provides the platform for many different forms of communications including GSM/GPRS, PLC and Lower Power Radio for WAN/LAN communications. The modular and optical port can be used to read data from other meters connected to the HAN.

The meter measures a combination of import and export active energy, fourquadrant reactive energy and apparent energy. Extensive security features protect the meter and module from fraud or tampering.

Instrumentation values are available to aid meter commissioning. The meter records up to 120 days of load and instrumentation profile data in shared storage.

Power Master Unit software provides a Windows[™] graphical interface for programming the meter and reading meter data.

Meters can be supplied to meet EC Directive 2004/22/EC (MID): accuracy Class A or Class B

kvarh is to EN 62053-23 Class 2 or 3.

The meter has an ingress protection rating of IP53 to IEC 60529:1



Features

- EN 62053-21: Accuracy Class 1 or Class 2
- EC Directive 2004/22/EC (MID): Class A or B
- kWh, kvarh and kVAh energy measurement
- Import/Export
- Modular WAN/LAN capability
- Home Automation Network allowing access to: Gas, Water, Other meter data, Customer display
- Comprehensive tariff structure
- Maximum demand registration
- Load limiting
- Load profiling recording (4 channels)
- Instrumentation profile recording (8 channels)
- Extensive security features
- Storage for external register values
- Product design life 20 Years
- Optical communications port
- Internal clock with battery back-up
- Compact design
- IP53 in accordance with IEC 60529:1989

Options

- Modular remote communications unit
- Internal disconnect contactor
- Magnetic field detection
- 100mA output
- Reactive LED
- BS or DIN case



Display



Programmable Display sequence with English display descriptors or OBIS identifiers.

Communications

Loca

Optical bidirectional IEC 62056-21 port

HAN interface will be available to match market requirements

Remote

WAN communications port allowing remote meter reading and programming of meter data.

Modules will be available for: GSM/GPRS; PLC; Low Power Radio

Tariff Structure

- 8 Time-of-Use Registers
- 1 Maximum Demand Register
- 12 Seasons
- 24 Change of Season Dates
- 48 Switching Times
- 32 Exclusion Dates
- 13 End of Billing Dates
- 10 Daily Billing Registers

Daylight Savings

Deferred Tariff

Typical Load/Instrumentation Profilin

Load Profiling

Load Profile	Instrumentation Profile
120(D), 4(C), 30(M)	80(D), 1(C), 30(M)
120(D), 2(C), 30(M)	120(D), 2(C), 30(M)
100(D) 2(C) 30(M)	70(D) 2(C) 15(M)

(D) Days, (C) Channels, (M) Integration Period in Minutes

Security

The meter offers high security against fraud or tampering.



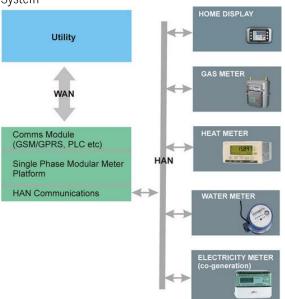
Programming log
Historical data
Power failure
Revere run energy
Billing event
Main cover removal
Terminal cover removal
In service hours
Scheme ID
Error flags
Watchdog count
Magnetic field detection



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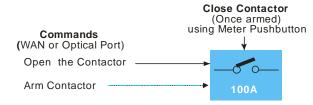
System



The HAN allows any remote meter to be read directly by the Utility or to be viewed on the Home Display.

Contactor Disconnect

The main 100A contactor can be disconnected locally or remotely by the Utility. This can be driven directly or driven by the meter at load limiting thresholds



Technical Data

Current Range	5-100A(BS) 5-65A(DIN)
Voltage Range	220-240V
Frequency	50Hz
Impulse Withstand	12kV impulse(from 40ohm source)
	6kV impulse from 2ohm source
Display Characters	9.8 x 3.3
	High contrast, wide angle
Baud Rates	Optical 300 to 9600 baud
	WAN - 9600 baud
Product Design Life	20 years
Temperature	-25° C to +65° C (operational range)
	-25° C to +85° C (storage)
	Annual mean 75% (non condensing)
Humidity	
Test Indicator Output	2000 pulses/kWh (kvarh)
Dimensions*	170 (High) x 132 (Wide x 65 (Deep)
Specification	EC Directive 2004/22/EC (MID):
Α.	Class A or Class B
Accuracy	kvarh Class 2 or 3 EN 62053-23
Case	IP53 to IEC 60529:1989
Case	11 22 10 100 000 250: 100 2

 $^{^{\}star}$ With short terminal cover. A long cover (enclosing the meter tails) is also available.

