SYSTEMS

Introduction

The DDS 285 is the new generation of smart meters to monitor and report on the ever increasing rise in the demand for energy. Fully MID Approved with full monitoring, logging and transmission of data to Energy Management systems the DDSD 285 future proofs communication requirements whilst keeping the display clear and easy to read.

Specifications

The Energy meter meets the requirements of:

Electricity metering equipment (a.c.) - General requirements, tests and test conditions - Part 11: Metering equipment.

Electricity metering equipment (a.c.) Particular requirements Part 21: Static meters for active energy (classes 1 and 2).

Electricity metering equipment (a.c.) Part 1: General requirements, tests and test conditions Metering equipment (class indexes A, B and C).

Electricity metering equipment (a.c.) Part 3: Particular requirements Static meters for active energy (class indexes A, B and C).

Meter Parameters

Basic Index

TYPE	PARAMETER	
Basic Parameter		
Meter Type	1P2W (LN-NL, 1-4 manganin circuit)	
Active Accuracy	Class 1.0 (IEC 62053-21), Class B (EN50470)	
Rated Voltage	240V, Operating voltage: 0.7Un~1.2Un	
Rated Frequency	50Hz	
Current Specification	5(100)A	
Starting Current	0.004lb	
Impulse Constant	1000 imp/kWh	
Power Consumption	Current circuit: active power consumption <2.2 VA;	
	Voltage circuit: active power consumption <1.8W,	
	apparent power consumption <10VA;	
Operating Temperature Range	-10°C ~ +60°C	
LED & LCD Display	& LCD Display	
LED	1 bi-colour pulse LED output;	
	When import current, LED red flashes;	
	When export current, LED yellow flashes;	
Energy Data Display	7+0 (configurable 5+2, 6+1)	
Test Type		
Standard	EN 50470-1, EN 50470-3	
	IEC 62053-21, EIC 62052-11	
Mechanical		
Terminal Box	BS	
Enclosure Protection	IP54	
Meter Case	Polycarbonate	
Against mechanical stroke and shake	IEC62052-11, Parts 5.2.2.1, 5.2.2.2 & 5.2.2.3	
Dimensions (LxWxH)	141x130x48.8mm (long) 100x130x48.8mm (short)	
Weight	About 0.6kg	

Meter Function

Energy Measurement

- Measurement mode:
- Total active energy = Total import active energy = |+A| The measurement mode is factory configurable:
 - Total active energy = |+A| + |-A|
 - Total active energy = total export active energy = |-A|
- Measurement accuracy: active class 1.0.
- Measurement contents:
- Total import active energy
- Total export active energy
- Total active energy energy

DDSD 285 kWh Import/Export Meter

Single Phase Meter with kWh pulse import/output 240 Volt, 50 Hz, 100 Amp





Display Module



Symbols on LCD	Description
Large number	Main display area, display active energy data
IMP	Abbreviation of Import, status indication of import active energy data display screen
EXP	Abbreviation of Export, status indication of export active energy data display screen
→	Real-time indication of import/export current

Display mode:

Button display

Scroll display

Display time: the interval of scroll display is 5s.

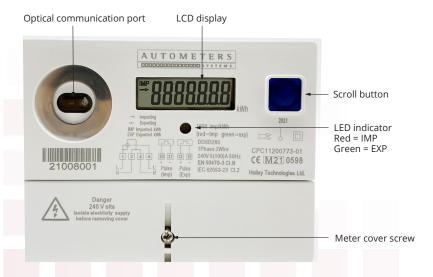
Display contents:

The contents of power on display and button display can be configured. Energy display will not display unit. Display list as follows:

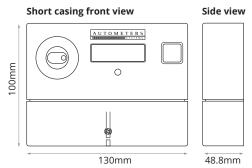
Display code	Description	Unit
1	Total import active	kWh
2	Total export active	kWh
3	Total active energy	kWh
4	Full screen	

Power off display: after the power off, the LCD will enter the full screen, and display as power on mode for about 1 minutes then automatically close. The LCD display can be activated again by pressing button. After activation, the first screen is full screen, and can switch via button after full screen. After about 1 minute, if there is no button operation, it will enter the off mode again.

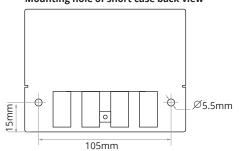
Appearance



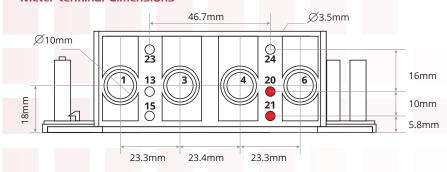
Casing dimensions



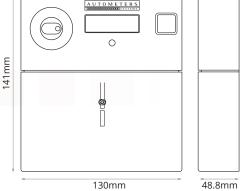
Mounting hole of short case back view



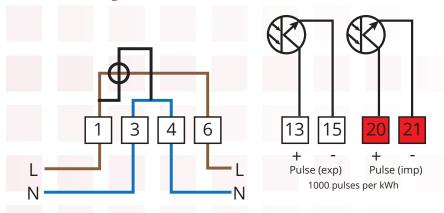




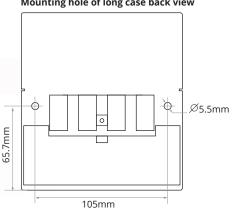
Long casing front view Side view



Connection diagram



Mounting hole of long case back view



AUTOMETERS