

DDSD 285

Single Phase Multifunction Meter with built in communication.

230 Volt, 50 Hz, 100 Amp

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 futureproofs communication requirements whilst keeping the display clear and easy to read.

Features Available

Multifunction parameters available on the display and via Modbus output

Historical Data and load profile

Multi Tariff with built in time clock

RS 485 Modbus RTU output.

I.R. port output

S.O. Pulse Output 100 imp/kwh

Event Log

Anti-tampering features

Back light display for ease of reading in dark areas.

Battery backup (replaceable via the front)

Horizon monitoring and billing compatible



MID Certified by Kema in Holland

MID approved "B" and "D", Accuracy class 1/B

Document number: TIC 7059-14

DDSD 285

Single Phase Multifunction Meter

Specification

Summary

The Energy meter meets the requirements of:

IEC 62052-11(2003)

Electricity metering equipment (ac)-general requirements, tests and test conditions-metering equipment.

IEC 62053-21 (2003)

Electricity metering equipment (ac)-STATIC METERS FOR ACTIVE ENERGY (Classes 1 and 2).

EN 50470-1 (2006)

Electricity metering equipment (ac)-part 1: General requirements, tests and test conditions-metering equipment (class indexes A, B, and C).

EN 50470-3 (2006)

Electricity metering equipment (ac)-part 3: Particular requirements-static meters for active energy (class index A, B and C).



Item	Sub-Item	Parameter
Basic	Meter Type	1 Phase 2 Wire
	Meter Standard	IEC62052-11, IEC62053-21
	Active Accuracy	Class 1.0 (IEC62053-21)
	Rated Voltage (Un)	220V, 230V, 240V
	Operating Voltage Range	0.7Un - 1.15Un
	Operating Frequency	50Hz or 60Hz
	Basic Current (Ib)	5A, 10A, 15A, 20A
	Maximum Current (Imax)	40A, 60A, 80A, 100A (Direct Connection)
	Starting Current	0.004Ib
	Pulse Constant	2000 imp/kWh (Imax = 40A)
	Power Consumption	Current Circuit: $\leq 0.5VA$ (Ib=5A) Voltage Circuit: $\leq 1W/10VA$
	Operating Temperature	-25°C - +55°C
	Storage Temperature	-40°C - +70°C
Performance	AC Voltage of Insulation	4kV, 50Hz, 1 minute
	Impulse Voltage of Insulation	6kV
	Immunity to Fast Transient Burst	4kV
	Surge Immunity	4kV
	Immunity to Short-time Over-current	30 Imax
Communication	Local Comm. Port1	Optical Port
	Local Comm. Port2	RS 485 2 Wire RTU 9600 Baud Rate High Word First Parity Even Autometers Protocol V6 Modbus Address programmable (254)
	Local Comm. Protocol	IEC62056-21 C
LED & LCD Display	LED	1 Active Pulse 1 Alarm LED
	LCD Display Digits (integer + decimal)	Energy: default 6+2 Option: 6+1
TOU	TOY	-4 tariff -12 time interval -4 day profiles table -4 seasons
	RTC	<0.5s/day (at 23°C)
	DST	Support
	Battery Life	At least 2 years in case of any power failure
	Load Profile	up to 9 Channels
Billing	Billing Data (Energy & Active MD)	Save recent 12 times billing data.
Event	Event Records	8 kinds of events
Mechanism	Terminal Box	BS Standard (Hole Size: 8.5mm ²)
	Enclosure Protection	EN-IEC 60529 IP 51 (Indoor)
	Seal	1 for terminal cover 2 for meter cover 1 for battery
	Case Material	Polycarbonate
	Against mechanical	Shock test: EN-IEC 60068-2-27 Vibration test: EN-IEC 60068-2-6
	Dimensions (L x W x H)	180mm x 125mm x 61mm
	Weight	0.6kg

Dimensions



Connections

