

# DIN-RAIL MOUNTED MULTIFUNCTION POWER METER

## • Overview

Din-rail mounted multifunction power meter is a new generation of micro meter for the construction of information project outside the electric power industry.

The meter has adopted LED/LCD display and configurable parameters, provides the function of energy pulse output, realizes data transmission with head end terminal through RS485. It's widely used into the energy metering and monitoring of residential users, shopping malls, schools, airports, harbour and industrial uses.

## • Key Features

- Din-rail mounted
- MODUS protocol
- Multi-channel

## • Technical Parameters

Functions		DDS1079-D 1ph Din-rail Meter	DTS1079-D 3ph Din-rail Meter	DTS1079-D- 3ph Multi-channel Meter
Basic Parameters	Appearance			
	Dimension(H×W×D) (mm)	115.3 ×78×65.5	126×89×74	126×89×74
	Weight(Kg)	0.5	0.75	0.6
	Nominal Voltage(Un)	220V	3×220/380V;3×57/100V;3×100V;3×380V	3×220/380V
	Voltage Range	Normal: 0.9~1.1Un; Ultra: 0.7~1.2Un	Normal: 0.9~1.1Un; Ultra: 0.7~1.2Un	Normal: 0.9~1.1Un; Ultra: 0.7~1.2Un
	Base Current(Ib)	1.5A, 5A	1.5A, 5A, 10A	Three channels of three phase or 12 channels of single phase: 1.5A, 20A
	Max Current(Imax)	6A, 60A	6A, 60A, 100A	Three channels of three phase or 12 channels of single phase: 6A, 80A
	Nominal Frequency(fn)	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Accuracy	Frequency Tolerance	±2%	±2%	±2%
	Active Energy	1, 2	0.5s	1
Power Consumption	Reactive Energy		2	2
	Voltage Circuit	< 1W and 2VA	< 1VA/phase	< 1VA/phase
Environment	Current Circuit	<2VA	< 1VA/phase	< 1VA/phase
	Temperature	-25°C~60°C	-25°C~60°C	-25°C~60°C
	Humidity	<95%	<95%	<95%
	RS485	1	1	1 or 2
	Protocol-Up	MODBUS-RTU/DLT645-2007/ DLT645-1997	MODBUS-RTU/DLT645-2007/ DLT645-1997	MODBUS-RTU/DLT645-2007/ DLT645-1997

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Measurement	Active Energy	Y	Y	Y
	Reactive Energy	-	Y	Y
	TOU	Y	Y	Y
	MaxDemand	Y	Y	Y
	Frozen Energy	Y	Y	Y
	Reset	Y	Y	Y
	Voltage	Y	Y	Y
	Current	Y	Y	Y
	Power Factor	-	Y	Y
	Harmonic Analysis	-	Y	-
	Zero/Positive/Negative Sequence Data analysis	-	Y	-
	Unbalance	-	Y	-
	Voltage Deviation	-	Y	-
	Current Deviation	-	Y	-
Tarrif	Minimum Interval	15min	15min	15min
	Max Tarrif Number	12	12	12
	Configuration Interface	RS485	RS485	RS485
	Holiday	Y	Y	Y
	Tarrif Time Number	≥ 8	≥ 8	≥ 8
Event Record	Outage	-	Y	Y
	Reset	-	Y	-
	Remote Open/Close Switch	-	Y	-
	Clock Synchronization	-	Y	-
	Cover Open	-	Y	-
	Program	-	Y	-
	Lost Voltage	-	Y	-
	Lost Current	-	Y	-
Clock	Current Reverse	-	Y	-
	Access With Password	Y	Y	Y
	Clock Output Pulse	-	1S	1S
	Clock Synchronization Period	-	1Day	1Day
Load Profile	Clock Synchronization Type	-	Broadcast	Broadcast
	Clock Error	<1s/d	<0.5s/d	<0.5s/d
	Max/Min/Average Data	-	Y	Y
LCD	Time Interval	-	Configurable, Default 15min	Configurable, Default 15min
	Storage	-	7 days	7 days
	Anti-UV	Y	Y	Y
I/O points	Display Mode	Cycle	Cycle/Button-Control	Cycle/Button-Control
	Wake-up Method	-	Button	Button
	Shift Interval	Configurable, Default 5S	Configurable, Default 5S	Configurable, Default 5S
	Auto-Off Time	30S	30S	30S
	Data Range	(0~999999.99) kWh	(0~999999.99) kWh	(0~999999.99) kWh
	DI	-	-	2
Security	DO	-	-	1
	Program Hard Key	-	Y	Y
	Password	Y	Y	Y
	Password Level	Y	Y	Y
Other	Error For Lock	3	3	3
	Certificate	CEPRI	CEPRI	CEPRI
	Installation	Rail-Mounted	Rail-Mounted	Rail-Mounted
	MTBF	>100000H	>100000H	>100000H

# PANEL MOUNTED MULTIFUNCTION POWER METER

## • Overview

Panel mounted multifunction power meter is a new generation of micro meter for the construction of information project outside the electric power industry.

The meter has adopted LED/LCD display and configurable parameters, provides the function of energy pulse output, realizes data transmission with head end terminal through RS485. It's widely used into the energy metering and monitoring of residential users, shopping malls, schools, airports, harbour and industrial uses.

## • Key Features

- Panel Mounted
- MODUS Protocol

## • Technical Parameters

Functions		WE6301(E72) 3ph Panel Meter	WE6301(E96) 3ph Panel Meter	WE6301(E14) 3ph Panel Meter
Basic Parameters	Appearance			
	Dimension(H×W×D) (mm)	72×72×94	96×96×97	144×144×137
	Weight(Kg)	0.4	0.55	0.9
	Nominal Voltage(Un)	3×220/380V;3×57/100V;3×100V;3×380V	3×220/380V;3×57/100V;3×100V;3×380V	3×220/380V;3×57/100V;3×100V;3×380V
	Voltage Range	Normal: 0.9~1.1Un; Ultra: 0.7~1.2Un	Normal: 0.9~1.1Un; Ultra: 0.7~1.2Un	Normal: 0.9~1.1Un; Ultra: 0.7~1.2Un
	Base Current(lb)	1.5A	1.5A	1.5A
	Max Current(lmax)	6A	6A	6A
	Nominal Frequency(fn)	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Accuracy	Frequency Tolerance	±2%	±2%	±2%
	Active Energy	0.2s, 0.5s	0.2s, 0.5s	0.2s, 0.5s
Power Consumption	Reactive Energy	2	2	2
	Voltage Circuit	< 1VA/phase	< 1VA/phase	< 1VA/phase
Environment	Current Circuit	< 1VA/phase	< 1VA/phase	< 1VA/phase
	Temperature	-25°C~60°C	-25°C~60°C	-25°C~60°C
	Humidity	<95%	<95%	<95%
	RS485	2	2	2
	Ethernet	-	-	-
	Protocol-Up	MODBUS-RTU/DLT645-2007/ DLT645-1997	MODBUS-RTU/DLT645-2007/ DLT645-1997	MODBUS-RTU/DLT645-2007/ DLT645-1997

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	Active Energy	Y	Y	Y
	Reactive Energy	Y	Y	Y
	TOU	Y	Y	Y
	MaxDemand	Y	Y	Y
	Frozen Energy	Y	Y	Y
	Reset	Y	Y	Y
	Voltage	Y	Y	Y
	Current	Y	Y	Y
	Power Factor	Y	Y	Y
	Harmonic Analysis	-	optional	-
Measurement	Zero/Positive/Negative Sequence Data analysis	optional	optional	optional
	Unbalance	-	optional	-
	Voltage Deviation	-	optional	-
	Current Deviation	-	optional	-
Tariff	Minimum Interval	15min	15min	15min
	Max Tariff Number	12	12	12
	Configuration Interface	RS485	RS485	RS485
	Holiday	Y	Y	Y
	Tariff Time Number	≥8	≥8	≥8
Event Record	Outage	Y	Y	Y
	Reset	-	Y	-
	Remote Open/Close Switch	-	Y	-
	Clock Synchronization	-	Y	-
	Cover Open	-	Y	-
	Program	-	Y	-
	Lost Voltage	-	Y	Y
	Lost Current	-	Y	Y
	Current Reverse	-	Y	Y
	Access With Password	Y	Y	Y
Clock	Clock Output Pulse	1S	1S	1S
	Clock Synchronization Period	1Day	1Day	1Day
	Clock Synchronization Type	Broadcast	Broadcast	Broadcast
	Clock Error	<0.5s/d	<0.5s/d	<0.5s/d
Load Profile	Max/Min/Average Data	-	Y	Y
	Time Interval	Configurable,Default 15min	Configurable,Default 15min	Configurable,Default 15min
	Storage	7 days	7 days	7 days
LCD	Anti-UV	Y	No	No
	Display Mode	Cycle/Button-Control	Cycle/Button-Control	Cycle/Button-Control
	Wake-up Method	Button/Infrared	Button/Infrared	Button/Infrared
	Shift Interval	Configurable,Default 5S	Configurable,Default 5S	Configurable,Default 5S
	Auto-Off Time	30S	30S	30S
	Data Range	(0~999999.99) kWh	(0~999999.99) kWh	(0~999999.99) kWh
I/O points	DI	1	4	-
	DO	-	2	-
	AI	-	2	-
	AO	-	2	-
Security	Program Hard Key	Y	Y	Y
	Password	Y	Y	Y
	Password Level	Y	Y	Y
	Error For Lock	3	3	3
Load Control	Switch Status Display	-	Y	-
	Remote Control	-	Y	-