Elecnova

ENERGY MANAGEMENT
DIN RAIL MOUNTED ENERGY METER

Electrical Application Solution Expert



NMi MID APPROVED

APPLICATIONS

- Energy Management
- Sub-item Metering
- Power Monitoring

MAIN FEATURES

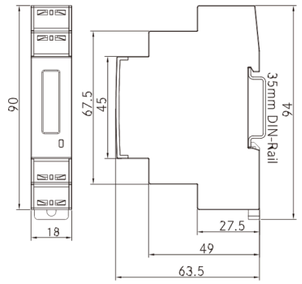
Measuring
-Direct measurement up to 100A

Communication
-Interface: RS485
-Protocol: Modbus-RTU

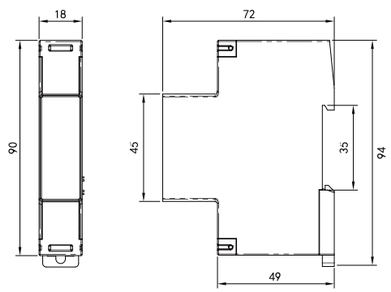
Energy Metering
-Bi-directional energy
-Tariff energy

DIMENSIONS

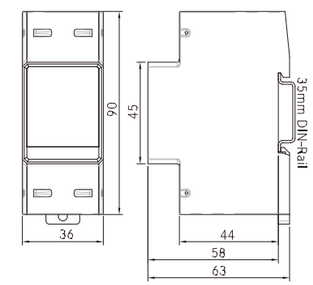
DDS1946-1P/DDSF1946-1P



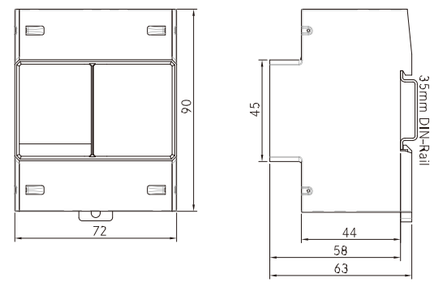
DDS1946-1P+/DDSF1946-1P+



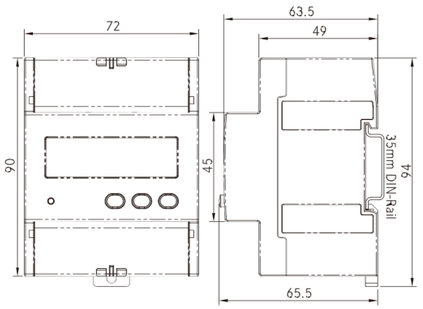
DDS1946-2P(M)/DDSF1946-2P(M)



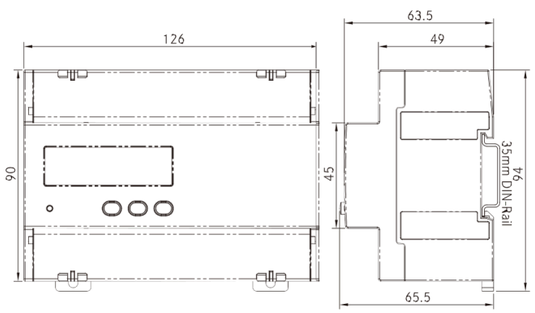
DTS1946-4P(M)/DTSF1946-4P(M)



DDS1946/DDSF1946



DSS1946/DSSF1946/DTS1946/DTSF1946



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COMPARISON TABLE











Model		DDS1946-1P+ / DDSF1946-1P+	DDS1946-2M / DDSF1946-2M	DDS1946-2P/ DDSF1946-2P	DTS1946-4M / DTSF1946-4M	DTS1946-4P / DTSF1946-4P	DDS1946-1P/ DDSF1946-1P	DDS1946 / DDSF1946	DSS1946 / DSSF1946	DTS1946 / DTSF1946
Wiring Method		Up In Down Out				Up In Down Out		Down In Down Out		
Accuracy		Class 1	Class B	Class 0.5S	Class B	Class 0.5S	Class 1	Class 0.5S	Class 0.5S	Class 0.5S
Wiring	1P2W	■	■	■	–	–	■	■	–	–
	3P3W	–	–	–	–	–	–	–	■	–
	3P4W	–	–	–	■	■	–	–	–	■
Voltage	230V	■	■	■	–	–	■	■	–	–
	3×400V	–	–	–	–	–	–	–	■	–
	3×230/400V	–	–	–	■	■	–	–	–	■
Current	Direct	10(100)A	5(63)A	5(100A)	5(63)A	5(100)A	5(40)A	5(100)A	5(100)A	5(100)A
	Via CT	–	–	–	–	–	–	1.5(6)A	1.5(6)A	1.5(6)A
Measuring	Voltage	■	■	■	■	■	■	■	■	■
	Current	■	■	■	■	■	■	■	■	■
	Power	■	■	■	■	■	■	■	■	■
	Power factor	■	■	■	■	■	■	■	■	■
	Frequency	■	■	■	■	■	■	■	■	■
Energy Metering	±kWh	■	■	■	■	■	■	■	■	■
	Tariffs	– / ■	– / ■	– / ■	– / ■	– / ■	– / ■	– / ■	– / ■	– / ■
	Backup*	–	–	–	–	–	–	□	□	□
Width(mm)		18	36	36	72	72	18	72	126	126
Communication (Modbus-RTU)		■	■	■	■	■	■	■	■	■
Digital Input		–	–	–	–	–	–	□	□	□
Energy Pulse		■	■	■	■	■	■	■	■	■
Display Mode		LCD	LCD		LCD	LCD	LCD	LCD	LCD	LCD

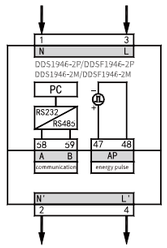
NOTE:1."■": Yes "–": No "□": Optional

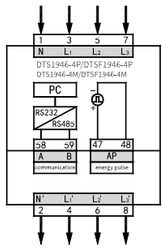
2.DDS/DDSF1946-2M and DTS/DTSF1946-2M are MID certified.

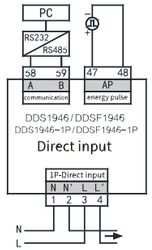
3.Only those with F in the model name have the tariffs function.

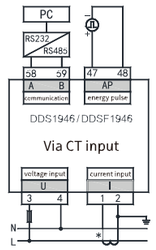
4.*The measurement of backup energy is realized by the digital input of optional ,and a B is added after the model is selected.For example,DTSF1946B

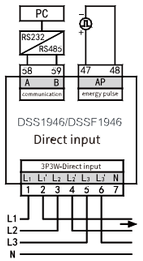
TYPICAL WIRING

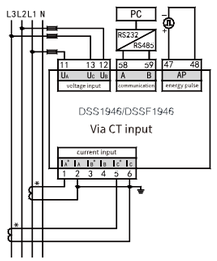


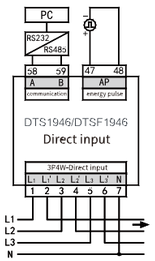


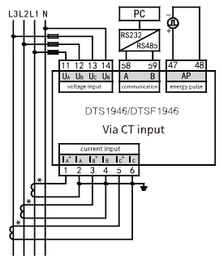












TECHNICAL SPECIFICATION

Model		DDS(F)1946-1P DDS(F)1946-1P+	DDS(F)1946-2P DDS(F)1946-2M	DDS(F)1946	DSS(F)1946	DTS(F)1946-4P DTS(F)1946-4M	DTS(F)1946
Normal Voltage		230V	230V	230V	3×400V	3×230/400V	3×230/400V
Frequency		45Hz~65 Hz					
Voltage Range		0.8Un~1.2Un					
Start Current	Direct input	0.004Ib					
	Via CT input	0.002In					
Consumption		< 2VA					
Energy Pulse		1 output, pulse width (80±20%) ms					
Digital Input		Active digital input, input range 0～220VAC; ＞150VAC closed, ＜70VAC open.					
RTC Error		≤0.5s/day					
Communication		RS485, Modbus-RTU, 2-wire, up to 9600bps					
IP Degree		Front: IP51					
Operating Temperature		-25 ℃～55 ℃					
Storage Temperature		-25 ℃～70 ℃					
Relative Humidity		≤93%					

DDSY1946A
DTSY1946A

The Prepaid energy meter is designed by adopting advanced microprocessor and signal processing technology, and it possesses functions as below: All-parameter measurement, electric energy metering, time-division charging, prepayment, demand quantity statistic, event recording, malignant load identification, fault warning, etc.

Strong/weak Current Isolation
Prepaid
Bi-directional Energy
Parameter Programmability



COMPARISON TABLE

Model		DDSY1946A	DTSY1946A
Wiring Mode		Single phase	Three-phase four-wire
Voltage Range		230V	3 x230/400V
Current Specification	Direct access	5(80)A	5(80)A
Real-time Measurement	Voltage and current	■	■
	Power	■	■
	Power factor	■	■
	Frequency	■	■
Electric Energy Metering	Bi-directional energy	■	■
	Multi-rate electric energy	■	■
Switching Value	Switching value input (AC wet contact)	■	■
	Relay output	■	■
Communication	RS485 interface	■	■
Electric Energy Pulse/clock Pulse		■	■
Display Mode		LCD	LCD

Note: The "■" above means that the item has the corresponding function.

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