

4.1 DRT-301M register Map Overview

The following table describes the global register map for the function Codes 0X03(register read) and 0x10(register write) for DRT-301M (Three phase DIN rail power quality meter with multi-tariff)

Address (hex)	Length (bytes)	Parameter Name	Access (R/W)	Data Format	Units
0x0010	4	Voltage L1	R	Hex	V
0x0012	4	Voltage L2	R	Hex	V
0x0014	4	Voltage L3	R	Hex	V
0X0030	4	Voltage L1-L3	R	Hex	V
0x0032	4	Voltage L3-L2	R	Hex	V
0x0034	4	Voltage L2-L1	R	Hex	V
0X004E	4	Frequency	R	Hex	Hz
0X0050	4	Current L1	R	Hex	A
0X0052	4	Current L2	R	Hex	A
0X0054	4	Current L3	R	Hex	A
0X0056	4	Current Neutral	R	Hex	A
0x0090	4	Power L1	R	Hex	kW
0x0092	4	Power L2	R	Hex	kW
0x0094	4	Power L3	R	Hex	kW
0x0096	4	Power Total	R	Hex	kW
0x00D0	4	Apparent Power L1	R	Hex	kVA
0x00D2	4	Apparent Power L2	R	Hex	kVA
0x00D4	4	Apparent Power L3	R	Hex	kVA
0x00D6	4	Apparent Power Total	R	Hex	kVA
0x0110	4	Reactive	R	Hex	kvar

		Power L1			
0x0112	4	Reactive Power L2	R	Hex	kvar
0x0114	4	Reactive Power L3	R	Hex	kvar
0x0116	4	Reactive Power Total	R	Hex	kvar
0x0150	4	Power Factor L1	R	Hex	
0x0152	4	Power Factor L2	R	Hex	
0x0154	4	Power Factor L3	R	Hex	
0x0156	4	Power Factor Total	R	Hex	
0x0160	4	Import Energy	R	Hex	KWh
0x0166	4	Export Energy	R	Hex	KWh
0x07D0	4	Import Energy Rate 1	R	Hex	KWh
0x07D2	4	Import Energy Rate 2	R	Hex	KWh
0x07D4	4	Import Energy Rate 3	R	Hex	KWh
0x07D6	4	Import Energy Rate 4	R	Hex	KWh
0x08D0	4	Export Energy Rate 1	R	Hex	KWh
0x08D2	4	Export Energy Rate 2	R	Hex	KWh
0x08D4	4	Export Energy Rate 3	R	Hex	KWh
0x08D6	4	Export	R	Hex	KWh

		Energy Rate 4			
0XF000	4	Time	R/W	BCD	s--min--hour--week. Date—Month—Year-- 20
0XF111	20	Last 1 month positive Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF121	20	Last 2 month positive Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF131	20	Last 3 month positive Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF141	20	Last 4 month positive Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF151	20	Last 5 month positive Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF161	20	Last 6 month positive	R	Hex	kWh

		Energy (Total Rate1 Rate2 Rate3 Rate4			
0XF171	20	Last 7 month positive Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF181	20	Last 8 month positive Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF191	20	Last 9 month positive Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF1A1	20	Last 10 month positive Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF1B1	20	Last 11 month positive Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF1C1	20	Last 12	R	Hex	kWh

		month positive Energy (Total Rate1 Rate2 Rate3 Rate4			
0XF211	20	Last 1 month reverse Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF221	20	Last 2 month reverse Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF231	20	Last 3 month reverse Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF241	20	Last 4 month reverse Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF251	20	Last 5 month reverse Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh

0XF261	20	Last 6 month reverse Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF271	20	Last 7 month reverse Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF281	20	Last 8 month reverse Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF291	20	Last 9 month reverse Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF2A1	20	Last 10 month reverse Energy (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kWh
0XF2B1	20	Last 11 month reverse Energy (Total Rate1 Rate2 Rate3	R	Hex	kWh

		Rate4			
0XF2C1	20	Last 12 month reverse Energy (Total Rate1 Rate2 Rate3 Rate4)	R	Hex	kWh
0XF311	20	Last 1 month positive max Demand (Total Rate1 Rate2 Rate3 Rate4)	R	Hex	kW
0XF321	20	Last 2 month positive max Demand (Total Rate1 Rate2 Rate3 Rate4)	R	Hex	kW
0XF331	20	Last 3 month positive max Demand (Total Rate1 Rate2 Rate3 Rate4)	R	Hex	kW
0XF341	20	Last 4 month positive max Demand (Total Rate1 Rate2 Rate3 Rate4)	R	Hex	kW
0XF351	20	Last 5 month positive max Demand (Total Rate1	R	Hex	kW

		Rate2 Rate3 Rate4			
0XF361	20	Last 6 month positive max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF371	20	Last 7 month positive max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF381	20	Last 8 month positive max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF391	20	Last 9 month positive max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF3A1	20	Last 10 month positive max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF3B1	20	Last 11 month positive max Demand	R	Hex	kW

		(Total Rate1 Rate2 Rate3 Rate4			
0XF3C1	20	Last 12 month positive max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF411	20	Last 1 month reverse max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF421	20	Last 2 month reverse max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF431	20	Last 3 month reverse max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF441	20	Last 4 month reverse max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF451	20	Last 5 month reverse max	R	Hex	kW

		Demand (Total Rate1 Rate2 Rate3 Rate4			
0XF461	20	Last 6 month reverse max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF471	20	Last 7 month reverse max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF481	20	Last 8 month reverse max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF491	20	Last 9 month reverse max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF4A1	20	Last 10 month reverse max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF4B1	20	Last 11 month	R	Hex	kW

		reverse max Demand (Total Rate1 Rate2 Rate3 Rate4			
0XF4C1	20	Last 12 month reverse max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
0XF500	4	Demand interval slide time Display time Display interval	R/W	BCD	min-min-s-s
0XF600	4	Meter number	R/W	Hex	
0XF700	30	Tariff	R/W	BCD	Tariff number-Min-Hour
0XF800	2	Baud rate	W	Hex	0001H: 1200bps 0002H: 2400bps 0003H: 4800bps 0002H: 9600bps
OXFA01	20	Current month positive max Demand (Total Rate1 Rate2 Rate3 Rate4	R	Hex	kW
OXFB01	20	Current	R	Hex	kW

		month reverse max Demand (Total Rate1 Rate2 Rate3 Rate4			
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4.2 DRT-301C/DRS-202C register Map Overview

The following table describes the global register map for the function Codes 0X03(register read) and 0x10(register write) for DRT-301C (Three phase DIN rail energy meter with MODBUS protocol) DRS-201C(DIN rail single phase two wire energy meter with MODBUS protocol)

Address (hex)	Length (bytes)	Parameter Name	Access (R/W)	Data Format	Units
0X000F	2	Meter ID	R/W	Hex	
0x011E	4	Active energy	R	Hex	kWh
0xF800	2	Modbus slave Baud rate	R/W	16 bit	1200bps 0x0001 2400bps 0x0002 4800bps 0x0003 9600bps 0x0004