

COUNTIS EVDC 300/600

Product reference: 48506300, 48506600



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1. REGISTER LIST

Address (Register)	Input Register Parameter				Modbus Protocol Start Address Hex	
	Description	Length (bytes)	Data Format	Units	Hi Byte	Lo Byte
30001	Voltage	4	Float	V	00	00
30007	Current	4	Float	A	00	06
30013	Power	4	Float	W	00	0C
30073	Import energy	4	Float	kWh	00	48
30075	Export energy	4	Float	kWh	00	4A
30085	Total power demand (1)	4	Float	W	00	54
30087	Maximum total power demand (1)	4	Float	W	00	56
30343	Total energy	4	Float	kWh	01	56
30385	Current resettable total energy	4	Float	kWh	01	80
311001	Import energy	4	Int32	kWh	2A	F8
311003	Residual import energy (2)	4	Int32	0.01Wh	2A	FA
311005	Export energy	4	Int32	kWh	2A	FC
311007	Residual export energy (2)	4	Int32	0.01Wh	2A	FE
311009	Total energy	4	Int32	kWh	2B	0 0
311011	Residual total energy (2)	4	Int32	0.01Wh	2B	0 2
311013	Import energy	4	Int32	kWh	2B	0 4
311015	Residual import energy (2)	4	Int32	0.01Wh	2B	0 6
311017	Export energy	4	Int32	kWh	2B	0 8
311019	Residual export energy (2)	4	Int32	0.01Wh	2B	0 A
311021	Total energy	4	Int32	kWh	2B	0 C
311023	Residual total energy (2)	4	Int32	0.01Wh	2B	0 E
311033	Total line loss energy	4	Int32	kWh	2B	18
311035	Residual total line loss energy (2)	4	Int32	0.01Wh	2B	1A
311045	Total charging gun energy	4	Int32	kWh	2B	24
311047	Residual total charging gun energy (2)	4	Int32	0.01Wh	2B	26
316385	Voltage	4	Float	V	40	00
316387	Current	4	Float	A	40	02
316389	Power	4	Float	W	40	04
316391	Total power demand	4	Float	W	40	06
316393	Maximum total power demand	4	Float	W	40	08
316395	Import energy	4	Float	kWh	40	0A
316397	Export energy	4	Float	kWh	40	0C
316399	Total energy	4	Float	kWh	40	0E
316401	Current resettable total energy	4	Float	kWh	40	10
316403	Current overload alarm (00 00 means no alarm ; 00 01 means Current overload alarm)	2	Hex	None	40	12
320009	Line loss power	4	Float	W	4E	28
320011	Total line loss energy	4	Float	kWh	4E	2A
320013	Charging gun power	4	Float	W	4E	2C
320019	Total charging gun energy	4	Float	kWh	4E	32

(1) The method of power demand calculation is: Import- Export. When the import and export power appear s in the demand period, the import power subtract the export power during data processing.

(2) Decimal part of the kWh value .

(3) **The bold marked are commonly used registers which allow users to read continuously at one time.**

2. HOLDING REGISTER

Address Register	Parameter	Modbus Protocol Start Address Hex		Valid range	Mode
		High Byte	Low Byte		
40003	Demand Period	00	02	Write demand period: 0-60 minutes, default 60. Setting the period to 0 will cause the demand to show the current parameter value, and demand max to show the maximum parameter value since last demand reset. Length : 4 byte Data Format : Float	r/w
40005	Slide time	00	04	Default 1 min. Range : 1 ~ (Demand Period -1). Length : 4 byte Data Format : Float	r/w
40013	Pulse Width	00	0C	Write pulse on period in Milliseconds : 60, 100 or 200, default 100. Length : 4 byte Data Format: float	r/w
40019	Network Parity and Stop	00	12	Write the network port parity/stop bits for MODBUS Protocol, where: 0 = 1 stop bit and none parity, default. 1 = 1 stop bit and even parity. 2 = 1 stop bit and odd parity. 3 = 2 stop bit and none parity. Length : 4 byte Data Format : Float	r/w
40021	Modbus address	00	14	Write the Modbus address Address: 1 to 247 for MODBUS Protocol, default 1. Length : 4 byte Data Format : Float	r/w
40025	Password	00	18	Write password for access to protected registers. default 1000 Length : 4 byte Data Format : Float	r/w
40029	Baud Rate	00	1C	Options : 0 means 2400 bps 1 means 4800 bps 2 means 9600 bps , default 3 means 19200 bps 5 means 1200 bps Length : 4 byte Data Format: Float	r/w
40059	Auto-scroll display time	00	3A	Range : 0-60s , default 0 0 means no scroll Length : 4 byte Data Format : Float	r/w
40061	Backlit time	00	3C	Options : 0 - 60 minutes 0 means the backlit always on Default : 60 Length : 4 bytes Data Format : Float	r/w
40087	Pulse output type	00	56	Options : 1 means Import energygy 2 means total energy, default 4 means Export energy Length : 4 byte Data Format: float	r/w
401536	Charging pile line loss mode	06	00	0000: Do not use line loss mode (default) 0001: 2-wire mode Length: 2 bytes Data Format : Hex	r/w

Address Register	Parameter	Modbus Protocol Start Address Hex		Valid range	Mode
		High Byte	Low Byte		
401537	Charging pile line resistance	06	01	Charging pile line resistance (default 0) 0~99.99 milliohms example: 0x0a = 0.1 milliohm 0x10 = 0.16 milliohms Length: 2 bytes Data Format : Hex	r/w
48193	Connection method of shunt	20	00	Setting on shunt connection. Options : 00 4 E means Negative type (default) 00 50 means Positive type Length : 2 byte Data Format: Hex	r/w
461457	Reset	F0	10	00 00 : Reset Maximum Demand 00 03 : Reset resettable energy Length : 2 byte Data Format:Hex	wo
463777	Energy Measurement model	F9	20	Options : 00 01 : Total = Import 00 02 : Total = Import + Export , default 00 03 : Total = Export Length : 2 byte Data Format: Hex	r/w
464513	Serial number	FC	00	Serial number Length : 4 byte Data Format : unsigned int 3 2	ro
464515	Meter code	FC	02	Meter code Length : 2 byte Data Format : hex	ro
464645	Display version	FC	84	The version number of the meter LCD display is XX.YY The first byte represents XX , and the second byte represents YY Length: 2 bytes Data Format : BCD	ro
464647	Program number	FC	86	XXXX displayed on the meter LCD Length : 2 byte Data Format : BCD	ro
464649	CRC code	FC	88	Program CRC check Length : 4 byte Data Format : Hex	ro

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