## Modbus holding registers:

Register(s)	Meaning	Scale Unit	Data format	R/ W
0000h-0001h	total energy	1/100 kWh	unsigned dword	R1
0002h-0003h	reserved		unsigned dword	
0004h-0005h	reserved		unsigned dword	
0006h-0007h	reserved		unsigned dword	
0008h-0009h	export energy	1/100 kWh	unsigned dword	R1
000Ah-000Bh	import energy	1/100 kWh	unsigned dword	R <sup>1</sup>
000Ch	voltage	1/10 V	unsigned word	R
000Dh	current	1/100 A	unsigned word	R
000Eh	active power	1 W	signed word	R
000Fh	reactive power	1 VAr	unsigned word	R
0010h	power factor	1/1000	unsigned word	R
0011h	frequency	1/100 Hz	unsigned word	R
0012h	reserved		unsigned word	
0013h	reserved		unsigned word	
0014h	reserved		unsigned word	
0015h:high	station address	1-247	unsigned char	R/ W
0015h:low	baud rate	1-42	unsigned char	R/ W
001Ah	relay³		unsigned word	R/ W

Notes:

Note 1:

Total, export and import energy counters can erased writing 0 in total energy registers.

### Note 2:

Value mapping, default 1.

Val ue	Baud rate	
1	9600 Bd	
2	4800 Bd	
3	2400 Bd	
4	1200 Bd	

### Note 3:

In DDS238-2 ZN/SR model the relay can be switched by 0x001A register.

Val ue	Rela y
0	Off
1	On

### Data formats

Data format	Lengh t	Byte order
char	8 bits	
word	16 bits	Big endian
dword	32 bits	Big endian

# Writing registers

The meter does not understand the 'write sigle register' function code (06h), only the 'write multiple registers' function code (10h).