

## DDS353-H2-M Modbus Registers

Modbus RTU default format:  
9600 Baud, 8 bit no parity 1 stop bit.  
First word high in 32 bit data types.

### Configuration/display registers.

#### Read function 3. Write multiple registers function 16

Note write single register function 6 not supported.

Register address	Register name	Factory default	Data type
40273	Node address range 1 to 247 0 for broadcast address	1	Unsigned 16 bit
40275	Display/settings 1  MSB parameter display bits, parameter is displayed if bit set: bit 0, active energy or forward active energy (always displayed) * bit 1, reactive energy or reverse active energy * bit 2, voltage V bit 3, current A bit 4, active power kW bit 5, reactive power kvar bit 6, apparent power kVA bit 7, power factor PF  LSB measurement mode, bit 0: 0, forward and reverse active energy * 1, active and reactive energy (default)	0xff01 (65281)	Unsigned 16 bit
40276	Display/settings 2  MSB kWh/kvarh display format, bit 0: 0, 6 + 0 digits, no decimal point. 000000kWh 1, 5 + 1 digits, 1 decimal place. 00000.0kWh (default)  LSB display parameter scrolling time, seconds 0-10s (default 5)	0x0105 (261)	Unsigned 16 bit
40277	Display/setting 3  LSB pulse output select: 0, active energy or forward active energy LED flash * (default) 1, reactive energy LED flash * 2, second pulse	0	Unsigned 16 bit
40280	LED flash rate  100, 1000 (default), 2000 pulses/kWh	1000 pulses/kWh	Unsigned 16 bit

\* When operating in forward and reverse active energy mode, there is no LED flash if reactive energy LED flash is selected.

### Parameter registers

#### Read only. Read function 3

Register address	Register name	Unit	Data type
40305	Frequency (4500-6000)	0.01Hz	Unsigned 16 bit
40306	Voltage	0.01V	Unsigned 16 bit
40314-40315	Current	0.001A	Unsigned 32 bit
40321-40322	Active power	0.001kW	Signed 32 bit
40329-40330	Reactive power	0.001kvar	Signed 32 bit
40337-40338	Apparent power	0.001kVA	Signed 32 bit
40345	Power factor	0.001PF	Signed 16 bit
440961-440962	Total active energy (default) Total forward active energy *	0.01kWh	Unsigned 32 bit
440991-440992	Total reactive energy (default) Total reverse active energy *	0.01kvarh 0.01kWh	Signed 32 bit

\* When operating in forward and reverse active energy mode, the reactive energy registers become the reverse active energy registers.