MODBUS Circutor CVMk

Circutor CVMk MODBUS communication protocol

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Supported device types and versions

MODBUS RTU MASTER supports data reading from the analyzers Circutor CVMk.

Communication line configuration

- Communication line category: Serial.
- Parameters of asynchronous line depending on the design and type of device connection – see literature about Circutor.

Communication station configuration

- Communication protocol: **MODBUS Circutor CVMk**.
- Station address is a decimal number in the range of 0 up to 255 or a hexadecimal number with a hash at the beginning (e.g. #1A).

Station protocol parameters

There can be defined the following parameters:

Table 1

Key word	Full name	Meaning	Unit	Default value
RC	Retry Count	Number of retry calls when an error in communication occurs.	-	2
RT	Retry Timeout	Delay between retry calls if an error in communication occurs.	ms	200 millisec.
WFT	Wait First Timeout	First waiting on the response after sending a call.	ms	100 millisec.
WT	Wait Timeout	Delay between the readings of a response until it is completed.	ms	100 millisec.
MWR	Max Wait Retry	Number of retry response reading until it is completed.	-	15

String with protocol parameters is written according to this rule:

```
Key_word=value;Key_word=value;...
```

Example:

```
RC=1;RT=500;
```

If a key word with valid value has not been found in the initial string, default value is used according to Table 1.

I/O tag configuration

I/O tags: **Ai**

Address – decimal number in the range of 0 to 65535 – number of MODBUS double register, or a hexadecimal number with a hash at the beginning (e.g. #0ABC).

The values are read by 2 registers and interpreted as a 4 byte integer. The addresses of values are described in literature about Circutor.

Literature

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Changes and modifications

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Document revisions

- Ver. 1.0 – May 9, 2000 – creation of document

Related pages:

Communication protocols