

# 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 Circutor CVMk analyzers.

### Communication line configuration

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

### Communication station configuration

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

## Station protocol parameters

There can be defined the following parameters:

Table 1

Keyword	Full name	Meaning	Unit	Default value
RC	Retry Count	The number of request retries when an error in communication occurs.	-	2
RT	Retry Timeout	Delay between request retries if an error in communication occurs.	ms	200 millisecc.
WFT	Wait First Timeout	First waiting for the response after sending a request.	ms	100 millisecc.
WT	Wait Timeout	Delay between the readings of a response until it is completed.	ms	100 millisecc.
MWR	Max Wait Retry	The number of response reading retries until the response 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 keyword with a valid value has not been found in the initial string, the default value is used according to Table 1.

### I/O tag configuration

I/O tags: **Ai**

**Address** – a number in the range of 0 to 65535 – number of MODBUS double register. It can be specified as a decimal number 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 the literature about Circutor.

### Literature

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## Changes and modifications

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## Document revisions

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



### Related pages:

[Communication protocols](#)