Remia E3

Remia E3 communication protocol

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Supported device types and versions

This protocol supports data reading / writing from a controller of quarter-hour maximum Remia EEE.

Communication line configuration

- Communication line category: Serial, SerialOverUDP Device Redundant, TCP/IP-UDP.
- Parameters of serial line:
  - Baud rate - 1200 Baud
  - No parity, 8 data bits, 1 stop bit
- Parameters of UDP line:
  - Host: IP address of the controller
  - Port: UDP port of the controller where requests are send.

  Note: The parameters of backup server (Host and Port) are not used in this protocol.

Communication station configuration

- Communication protocol: **Remia E3**.
- Station address is set according to the address on a device (0 to 15) specified as a decimal number or as a hexadecimal number with a hash at the beginning (e.g. #6A) .

Station protocol parameters

Configuration dialog box of station - the tab "**Protocol 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 the retry calls if an error in communication occurs.	ms	100 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	300 millisec.
MWR	Max Wait Retry	Number of retry response reading until it is completed.	-	10

I/O tag configuration

I/O tag types: **Ai, Ci, Co, Di, TiA, TiR**.

The address is a number in the range from 0 to 300 (as a decimal number or as a hexadecimal number with a hash at the beginning, e.g. #0A).
The meaning of the addresses is stated in the Table 2:

Table 2

Value type	Address	Description	Read/Write
Ai			
Ai	0	Instantaneous power.	R
Ai	1	Average power.	R
Ai	2	Peak VT.	R

Ai	3	Peak NT.	R
Ai	4	Measurement 1 (main) - the last 1/4 hour (see Note).	R
Ai	5	Measurement 2 (secondary) - the last 1/4 hour (see Note).	R
Ci			
Ci	0	Number of electrometers.	R
Ci	1	Number of regulatory degrees.	R
Ci	2	Number of appliances.	R
Ci	3	Regulatory degree.	R
Ci	4	Tariff (0=VT, 1=NT).	R
Ci	5	Current regulatory degree.	R
Ci	6	Current average power (%).	R
Co			
Co	0	Regulated power VT.	R/W
Co	1	Regulated power NT.	R/W
Di			
Di	0 až 7	Type of electro meter (FALSE=active power [kW], TRUE=reactive power [kVAr]).	R
Di	100 až 164	Appliances (FALSE=idle state, TRUE=control state).	R
Di	200 až 264	Status signal (FALSE=inactive, TRUE=active).	R
TiR			
TiR	0	Time within 15-minute interval.	R
TiA			
TiA	0	Date and time of initialization.	R
TiA	1	Date and time of power failure.	R
TiA	2	Date and time of the configuration change.	R
TiA	3	Date and time of the last reset.	R
TiA	4	Current date and time.	R
TiA	5	Time to reach peak VT.	R
TiA	6	Time to reach peak NT.	R
TiA	7	Time of the last quarter-hour.	R

Note: You can obtain also the values from an archive of device per the current and previous month for both the main and secondary measurement. The reading of archive values may be started in the station dialog box or by Tell command GETOLDVAL.

Literature

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Changes and modifications

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Document revisions

- Ver. 1.0 - August 22, 2001 - Creation of document
- Ver. 1.1 - April 22, 2008 - Updating

Related pages:

Communication protocols