ALYA Gina

ALYA Gina communication protocol

Supported device types and versions

This protocol is used to read the weighted values from scales produced by ALYA Poprad. It can be used only when a single scale is connected to a line since it does not contain addressing of the scale.
For communication with more scales, the ALYA SPOOL protocol may be used**.**

Communication line configuration

- Category of communication line: Serial (RS-232 or RS-422), SerialOverUDP Device Redundant
- Parameters of the serial line:
  - Baud rate: 2400 Baud
  - 8 data bits
  - 1 stop bit
  - Parity: Odd

Note: to get the communication started with a specific device, the *DTR* and *RTS* signals had to be set to ON, therefore the SerialOverUDP Device Redundant communication line together with a MOXA NPort-5110 serial server set to the UDP mode could not be used (the UDP mode does not support the setting of *DTR* and *RTS* signals to a fixed value). Instead, the MOXA NPort-5110 serial server had to be switched to a *Real COM* mode and a Serial line had to be configured.

Communication station configuration

- Communication protocol: **Alya Gina**
- The station address is unimportant.

Station protocol parameters

Communication station - configuration dialog box - "**Protocol parameters**" tab.
They influence some of the optional parameters of the protocol.

Table 1

Keyword	Full name	Meaning	Unit	Default value
WT	Wait Timeout	Delay between the readings of response until it is completed.	ms	100 millisec.
WFT	Wait First Timeout	First waiting on a response after sending the request.	ms	100 millisec.
MWR	Max Wait Retry	The number of response reading retry until it is completed.	-	6
RC	Retry Count	The number of request retries if a communication error occurs.	-	2

I/O tag configuration

Possible I/O tag types: **AI**

Addresses of I/O tags:

- **NET** - net weight of the load
- **TARA** - tare - the weight of the packaging

Note: If a scale sends a message, which means that the platform is not stabilized yet, the **NET** and **TARA** I/O tags will have invalid values.

Literature

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Changes and modifications

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Document revisions

- Ver. 1.0 – July 8, 2015 – creating a document

Related pages:

Communication protocols