

ALYA Gina

ALYA Gina communication protocol

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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](#), [TCP/IP-TCP](#)
- 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
- Ver. 1.1 - January 25, 2023 - support for TCP/IP-TCP line



Related pages:

[Communication protocols](#)