

WANDLA console protocol version 1.0

Ferrum WANDLA converters can be connected to home automation systems with serial port that is available on the rear panel. The serial port provides a console with a set of simple commands and events. The console works in text mode and can be used with any terminal application.

The console is case-sensitive, uses '\n'(ASCII 0x0A) character for line termination and a whitespace(ASCII 0x20) as an argument separator within the line. Besides these two characters only letters and digits must be sent, otherwise the console will treat whole line as an unrecognized command. The console does not have the echo function.

Available commands:


<i>help</i>	Prints description of all available commands.
<i>get protocol version</i>	Returns implemented protocol version.
<i>wakeup</i>	Wakes the device from standby mode.
<i>sleep</i>	Puts the device into standby mode.
<i>get state</i>	Returns current device state. Usage: ' <i>get state</i> ' Possible values: standby enabling working disabling
<i>set/get volume</i>	Controls volume. Usage: ' <i>set volume <value></i> ' or ' <i>get volume</i> ' Allowed values: from 0 to 100; step=1
<i>set/get mute</i>	Controls mute. Usage: ' <i>set mute <value></i> ' or ' <i>get mute</i> ' Allowed values: off on
<i>set/get input</i>	Controls signal source. Usage: ' <i>set input <value></i> ' or ' <i>get input</i> ' Allowed values: usb optical coaxial aes arc i2s analog

Possible events and reasons:

<i>current state <value></i>	State of the device has changed or ' <i>get state</i> ' command was received.
<i>current volume <value></i>	Value of the 'volume' parameter has changed or ' <i>get volume</i> ' command was received.
<i>current mute <value></i>	Value of the 'mute' parameter has changed or ' <i>get mute</i> ' command was received.
<i>current input <value></i>	Value of the 'input' parameter has changed or ' <i>get input</i> ' command was received.
<i>current protocol version <version></i>	The ' <i>get protocol</i> ' command was received.

The console will send corresponding event every time a value changes, regardless what caused the change. For example: every time user turns the volume knob, presses volume +/- buttons on the remote controller or sends the '*set volume <value>*' command, the console will send the '*current volume <value>*' event.

Please note that commands, events and values may change from one version of the WANDLA's firmware to another. In case of any doubts use the 'help' command.

	Name	Version	
	WANDLA console protocol	1.0.0	
		Sheet	Date
		1 / 2	21.06.2023