

# *d.Drive Pump C30*



## **RS232 Port Parameter:**

Baud rate: 38400  
Databits: 8  
Stopbits: One  
Parity: None

## **Send Commands:**

Commands are terminated at the end of the corresponding character string with <CR> Carriage Return (ASCII character 13).

## **Response:**

Echo of the command + <ACK> <CR>	Command understood
Echo of the command + <NAK> <CR>	Command not understood
Echo of the command + <ACK> <Value> <CR>	Command understood + queried value

The special characters mean:

<ACK> Acknowledge, ASCII character 6

<NAK> Not Acknowledge, ASCII character 21

<b>Execution Commands</b>	
Command	Description
<b>INIT&lt;CR&gt;</b>	Initialize device
<b>START &lt;CR&gt;</b>	Device/pumps/dosing is started with previously set parameters
<b>STOP&lt;CR&gt;</b>	Stop device / process
<b>PRIME&lt;CR&gt;</b>	Device rinses endlessly
<b>PREP&lt;CR&gt;</b>	Prepare syringe drive for direct start
<b>DOWN&lt;CR&gt;</b>	Both drives are moved to the service position for exchanging the syringes
<b>SAVE&lt;CR&gt;</b>	All parameters are written into the non-volatile memory of the device
<b>READ&lt;CR&gt;</b>	All parameters are read out from the non-volatile memory of the device
<b>SCZ&lt;CR&gt;</b>	Sets counter of pumping / dosing volume & / pumping / dosing time to zero

<b>Set Parameters</b>		
Command	Description	<n>
<b>SSV=&lt;n&gt;&lt;CR&gt;</b>	Set syringe volume	Volume in [µl]
<b>SFL=&lt;n&gt;&lt;CR&gt;</b>	Set flow rate (infinite pumping)	Flow rate in [µl / min] separated by a decimal point
<b>STV=&lt;n&gt;&lt;CR&gt;</b>	Set total volume (finite dosage)	Volume in [µl], values in the range of 1... 2000000000
<b>STT=&lt;n&gt;&lt;CR&gt;</b>	Set total time (finite dosage)	Time in [sec], values in the range of 1... 2000000000
<b>SPM=&lt;n&gt;&lt;CR&gt;</b>	Set pump mode, normal or reverse	0 = normal flow 1 = reverse flow
<b>SAT=&lt;n&gt;&lt;CR&gt;</b>	Set flow rate / stroke time PRIME & INIT	Scaled time in steps from 0-9 0 = fast 9 = slow
<b>SIP=&lt;n&gt;&lt;CR&gt;</b>	Set INIT direction	0 = left side 1 = right side

<b>Parameters / Values query</b>		
<b>Command</b>	<b>Description</b>	<b>Response</b>
<b>GSV&lt;CR&gt;</b>	Query syringe volume	Volume in [ $\mu$ l]
<b>GFL&lt;CR&gt;</b>	Query flow rate (infinite pumping)	Flow rate in [ $\mu$ l / min] separated by a decimal point
<b>GTV&lt;CR&gt;</b>	Query total volume (finite dosage)	Volume in [ $\mu$ l], values in the range of 1... 2000000000
<b>GTT&lt;CR&gt;</b>	Query total time (finite dosage)	Time in [sec], values in the range of 1... 2000000000
<b>GPM&lt;CR&gt;</b>	Query pump mode, normal or reverse	0 = normal flow 1 = reverse flow
<b>GAT&lt;CR&gt;</b>	Query flow rate / stroke time PRIME & INIT	Scaled time in steps from 0-9 0 = fast 9 = slow
<b>GIP&lt;CR&gt;</b>	Query INIT direction	0 = left side 1 = right side
<b>GDV&lt;CR&gt;</b>	Query cumulated dose volume	Per thousand full strokes
<b>GRT&lt;CR&gt;</b>	Query cumulated run time	Time in [msec]
<b>GPS&lt;CR&gt;</b>	Query device status	Reads a binary-coded value that reflects the status of the device. If applicable, the corresponding bit is set
<b>GPE&lt;CR&gt;</b>	Query device errors	Reads a binary-coded value that reflects the error of the device. The corresponding bit is set if the component is faulty

## Contact

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