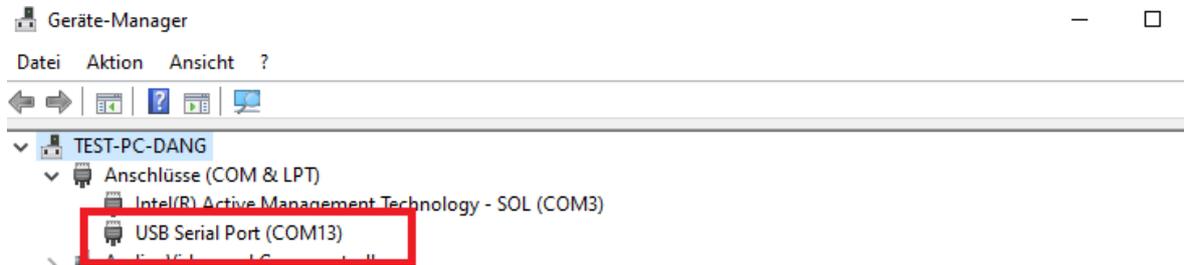


# Remote Commands of P 1885 and P 1890 (RS-485 and USB Port)

1. Search for COM Port of P 1885/1890 on your PC:



2. Option **RS-485**: Prepare RS-232/RS-485 adapter for P 1885/1890 as shown.  
Option **USB**: Connect the P 1885/1890 with your PC via USB.

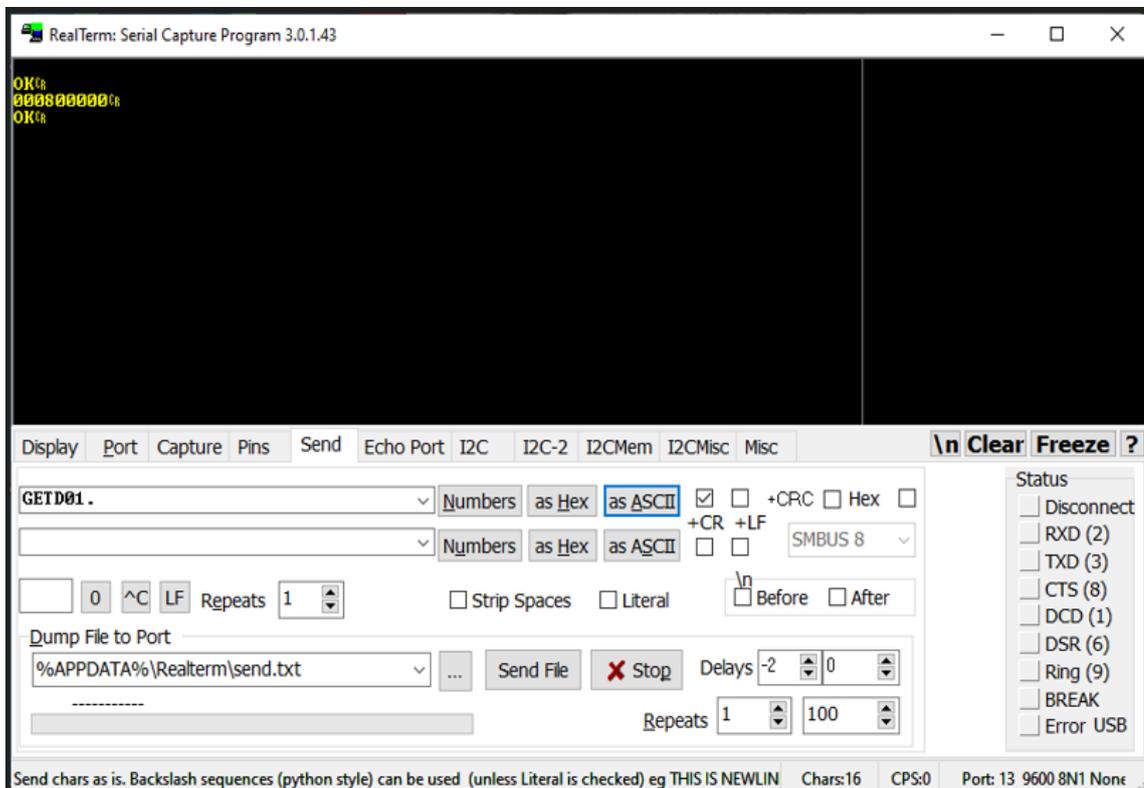


Using the Remote Programming Mode, the RS-485/USB Port interface is always ready for a connection to PC.

3. Search for the right device address of RS-485/USB Port in P 1885/1890:



- a. When the device address of RS-485/USB Port is between 001 and 009, we must regard the <address> as „01“



- b. When the device address of RS-485/USB Port is greater than 9:  
 We must convert it from Decimal to Hexadecimal and then to ASCII Code. For example, for an address "010", we must regard the <address> as „010“ or “0A“ or „0:“.  
 For example, a GETD command: “GETD0:”.

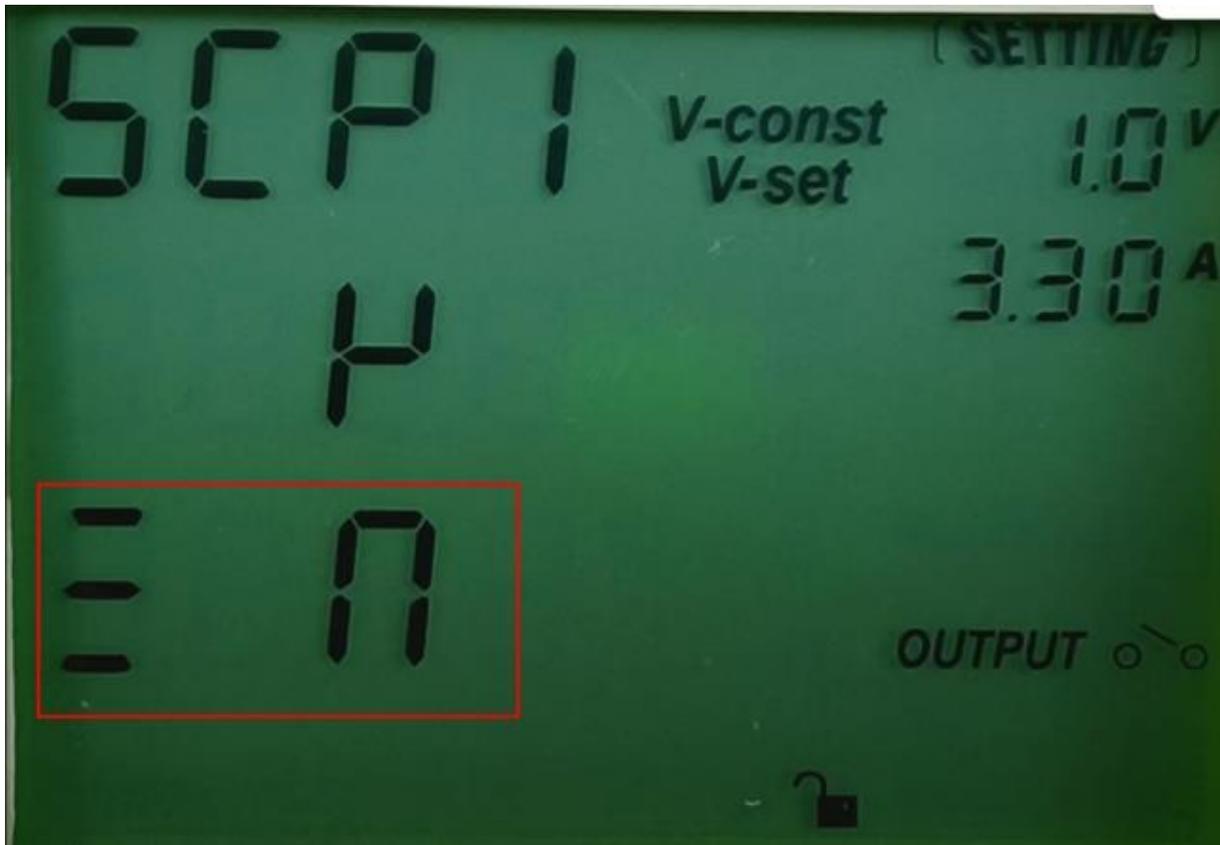
Decimal	Hexadecimal	Code
009	09	09
010	0A	0:
011	0B	0;
012	0C	0<

Moreover, please note that the address should be according to the format which is listed in user manual the section APPENDIX A.

<address> 30h, 30h - 3fh, 3fh (2 bytes data)

4. Disable SCPI for P 1885/1890:

	Action	LCD Display	Description
1.	Press  Then 		Press  and  to enter into SCPI enable/disable menu
2.	Rotate 		Use JOG select between Y and N
3.	Press 		Press this key to confirm



5. Send remote command to P 1885/1890:

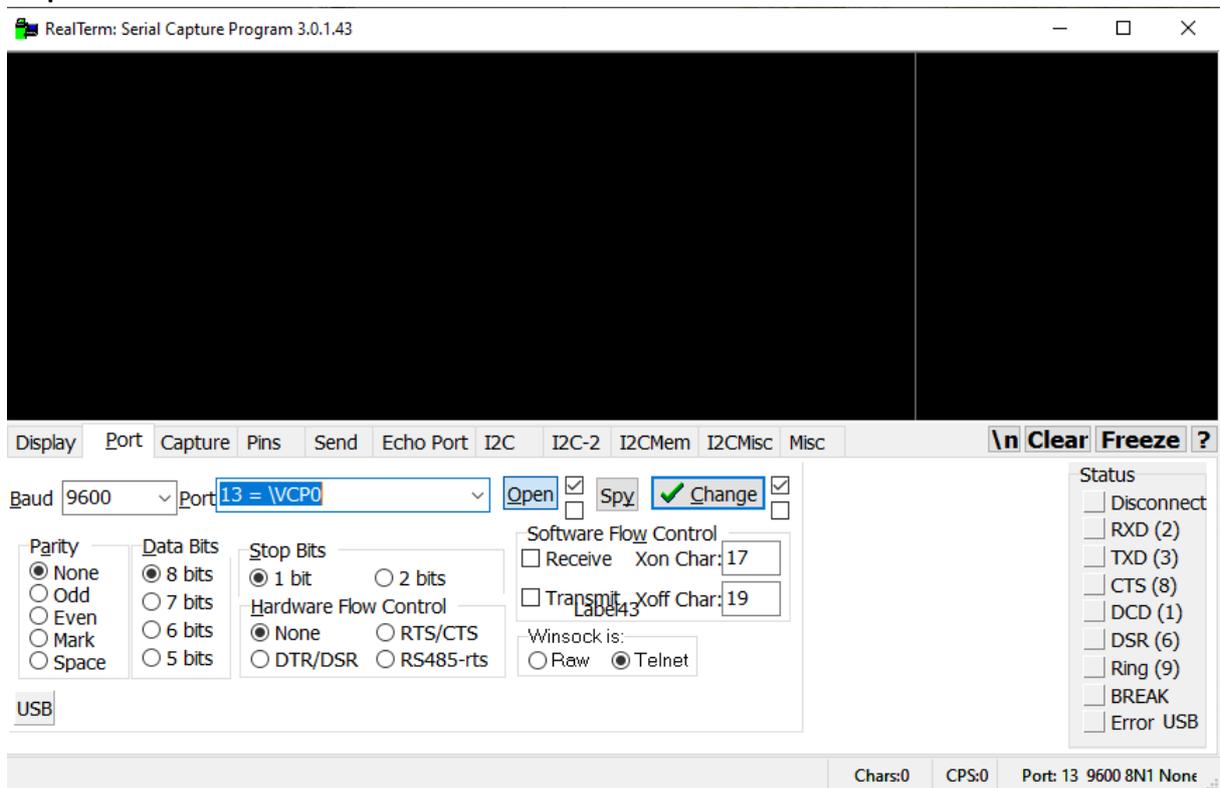
We can use Realterm to send remote command to P 1885/1890. We must set these values:

**Baud: 9600**

**Parity: None**

**Data Bits: 8**

**Stop Bits: 1**



Remote Commands for RS-485 and USB Port of P1885-90\_SM/HD\_032026

6. List of remote commands use for P 1885/1890:

**Bold – Input Command**

*Italic – Return Data from P 1885/1890*

If an incorrect command was sent, the device will not return any error.

<b>Command Code &amp; Return Data</b>	<b>Description</b>
<b>SESS</b> <address><CR>  <i>[OK][CR]</i>	Disable front panel keypad and switch P 1885/1890 to remote mode session.
<b>ENDS</b> <address><CR>  <i>[OK][CR]</i>	Enable front panel keypad and exit remote mode session.
<b>GCOM</b> <address><CR>  <i>[RS] RS485 Address[??][CR]</i> <i>[OK][CR]</i>	Get the RS-485/USB Port address.
<b>GMAX</b> <address><CR>  <i>Voltage[??][CR]</i> <i>[OK][CR]</i>	Get maximum voltage and current of P 1885/1890
<b>GOVP</b> <address><CR>  <i>Voltage[??][CR]</i> <i>[OK][CR]</i>	Get Upper Voltage Limit of P 1885/1890
<b>GETD</b> <address><CR>  <i>Voltage[????]Current[????][0][CR]</i> <i>[OK][CR]</i> <i>Voltage[????]Current[????][1][CR]</i> <i>[OK][CR]</i>	Get Voltage & Current reading from P 1885/1890  P 1885/1890 in CV mode  P 1885/1890 in CC mode
<b>GETS</b> <address><CR>  <i>Voltage[????]Current[????][0][CR]</i> <i>[OK][CR]</i>	Get Voltage & Current Set value from P 1885/1890
<b>GETM</b> <address><CR>  <i>Memory 1 Voltage[??] Current[??][CR]</i> <i>Memory 2 Voltage[??] Current[??][CR]</i> <i>..</i> <i>Memory 9 Voltage[??] Current[??][CR]</i> <i>[OK][CR]</i>	Get all present memory value from P 1885/1890  For example, the address of the P 1885/1890 which connected to PC through RS485/USB is 001. -> Send "GETM01\r" can get the value of all 9 internal preset memories. The format is GETM +2 digits (hexadecimal) RS485/USB address. "01" is the address.

<p><b>GETM&lt;address&gt;location{1-9}&lt;CR&gt;</b></p> <p><i>Voltage[???] Current[???][CR]</i>  <i>[OK][CR]</i></p>	<p>Get memory from specific preset of P 1885/1890</p> <p>-&gt; Send "GETM011\r" can get the value of 1st internal preset memory. The format is GETM +2 digits (hexadecimal) RS485/USB address +1 digit preset location.</p> <p>-&gt;Send "GETM012\r" can get the value of 2nd internal preset memory. The maximum location is 9.</p>
<p><b>GETP&lt;address&gt;&lt;CR&gt;</b></p> <p><i>Program 00 Voltage[???]Current[???]Minute[??]Second[??][CR]</i>  <i>Program 01 Voltage[???]Current[???]Minute[??]Second[??][CR]</i>  <i>..</i>  <i>Program 19 Voltage[???]Current[???]Minute[??]Second[??][CR]</i>  <i>[OK][CR]</i></p>	<p>Get all the timed programm memory of P 1885/1890.</p> <p>For example, the P 1885/1890 which connected to PC through RS485/USB is 001.</p> <p>-&gt; Send "GETP01\r" can get the value of all 20 sets of internal timed program. The format is GETP +2 digits (hexadecimal) RS485/USB address.</p>

<p><b>GETP&lt;address&gt;programm{00-19}&lt;CR&gt;</b></p> <p><i>Voltage[???]Current[???]Minute[??]Second[??][CR] [OK][CR]</i></p>	<p>Get timed program memory from specific program of P 1885/1890.</p> <p>For example, the P 1885/1890 which connected to PC through RS485/USB is 001. -&gt; Send "GETP0100\r" can get the value of 1st internal timed program. The format is GETP +2 digits (hexadecimal) RS485/USB address +2 digits timed program number. "00" is the 1st timed program.</p> <p>-&gt;Send "GETP0101\r" can get the value of 2nd internal timed program. The range is 00 to 19.</p>
<p><b>VOLT&lt;address&gt;voltage{000-XXX}&lt;CR&gt;</b></p> <p><i>[OK][CR]</i></p>	<p>Set voltage level.</p> <p>-&gt;Send "VOLT01132\r" can set the output voltage to 13,2V.</p>
<p><b>CURR&lt;address&gt;current{000-XXX}&lt;CR&gt;</b></p> <p><i>[OK][CR]</i></p>	<p>Set current level.</p> <p>-&gt;Send "CURR01022\r" can set the output current to 2,2A.</p>
<p><b>SOVP&lt;address&gt;voltage{000-XXX}&lt;CR&gt;</b></p> <p><i>[OK][CR]</i></p>	<p>Set upper voltage limit of P 1885/1890.</p>
<p><b>SOUT&lt;address&gt;1&lt;CR&gt;</b></p> <p><i>[OK][CR]</i></p>	<p>Disable output of P 1885/1890</p>

<b>SOUT&lt;address&gt;0&lt;CR&gt;</b> <i>[OK][CR]</i>	Enable output of P 1885/1890
<b>POWW&lt;address&gt;location{1-9}0&lt;CR&gt;</b> <i>[OK][CR]</i>	Enable the output when switch on the P 1885/1890.
<b>POWW&lt;address&gt;location{1-9}1&lt;CR&gt;</b> <i>[OK][CR]</i>	Disable the output when switch on the P 1885/1890.
<b>PROM&lt;address&gt;location{1-9}Voltage{000-XXX}Current{000-XXX}&lt;CR&gt;</b> <i>[OK][CR]</i>	Set voltage and current values of preset memory.
<b>PROP&lt;address&gt;location{00-19}Voltage{000-XXX}Current{000-XXX}Minute{00-9}Second{00-59}&lt;CR&gt;</b> <i>[OK][CR]</i>	Set voltage, current and time period of timed program.
<b>RUNM&lt;address&gt;location{1-9}&lt;CR&gt;</b> <i>[OK][CR]</i>	Recall preset memory 1-9
<b>RUNP&lt;address&gt;time{000-256}&lt;CR&gt;</b> <i>[OK][CR]</i>	Run timed program. ->Send "RUNP01008\r" can set the DVDT cycle to 8 times. The last 3 digits "008" means the number of cycles.
<b>STOP&lt;address&gt;&lt;CR&gt;</b> <i>[OK][CR]</i>	Stop timed program.