

Interface Protocol Series P700

For communication via USB to P700 instruments you need USB/RS232 driver by FTDI.

| | | |
|-------------------|------------------|------------------|
| Parameter: | Baudrate | 2400 Baud |
| | Datenbits | 8 |
| | Stopbits | 2 |
| | Parität | None |

To start the data transmission you have to send the following characters. The following index shows you which value can be requested over the interface.

| | Series P700 | Series P700 | Series P700 |
|-------------------------------------|-------------|--------------|-------------|
| Measurement 1 + 2 | FC (hex) | 252 (dec.) | ü (Ascii) |
| Version | 6E (hex) | 110 (dec.) | n (Ascii) |
| Instrument type | | | V (Ascii) |
| Instrument serial number | | 83 (dez.) | S (Ascii) |
| Readout memory (Plog and P795 only) | 6C (hex) | 108 (dec.) | I (Ascii) |
| Release keyboard | 0 (hex) | 0 (dec.) | |

Befehlserklärung:

Comands need to end with Cr Lf (0D 0A or Hexwert &0D&0A)

- „FC“ (hex) = actual measurement e.g. „23.351 25.462“
- „S“ = serial code e.g. „79506000108“
- „n“ = version code e.g. „V3.03“
- „I“ (small L) Read = download/Dump of all data from the memory
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The commands are able to enter by the Windows Hyperterminal, but before the driver for USB/RS232 (VCP-Driver FTDI) must be installed.

Driver you will find under FTDI

Link: www.ftdichip.com/

Attention: By sending the command FC(hex) you will get the complete data, the instrument lock automatically the keyboard. To release the keyboard you have to send the command 0(hex).

The interface of the instruments are galvanically isolated. Therefore the opto-coupler require the operating voltage from the PC. Please take care by initializing the signals DTR and RTS. The correct settings are DTR=0 and RTS=1.

Please note the below mentioned command: PORT [\$3FC]:= 2

The datas would be sent in the following format.

Data Type = String

The length of the string depends on the instrument (a two-channel or one-channel instrument).

The length of the string is max.18 Bit at a two-channel instrument.

| | | |
|-------|------------|---------------------|
| | geprüft | freigegeben |
| Datum | | |
| Name | | |
| | Verteiler: | TD-Ordner PR-Ordner |