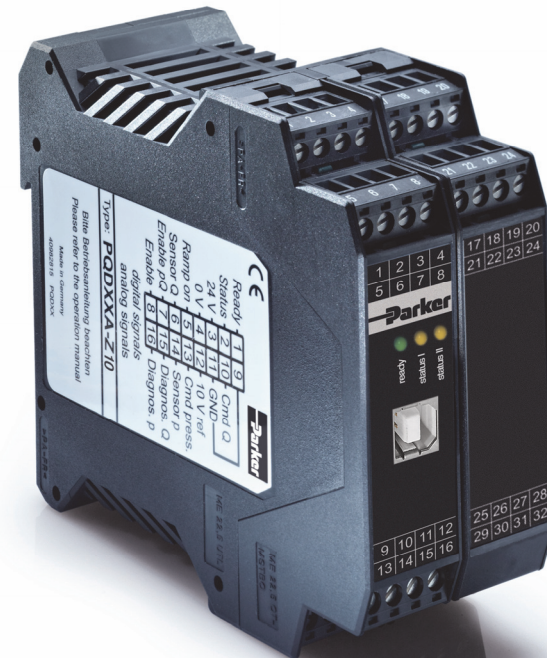


ProPVplus 3.6 Quick Guide

English



ENGINEERING YOUR SUCCESS.

Effective: July 01, 2015
Supersedes: November 01, 2014

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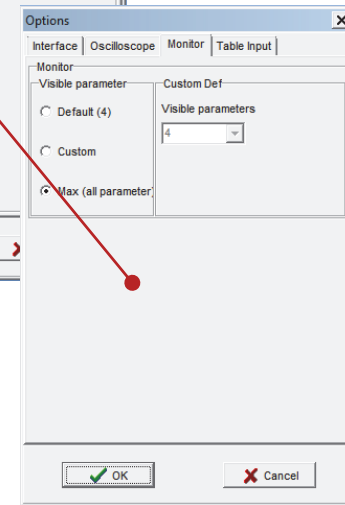
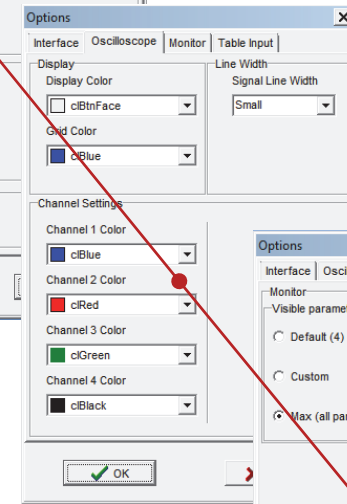
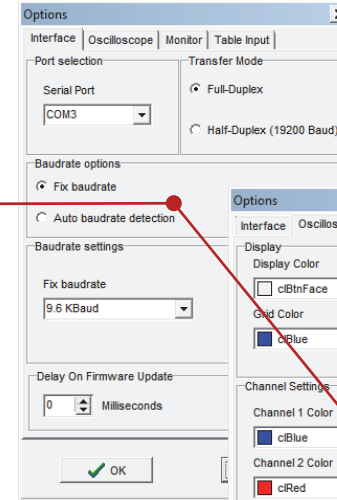
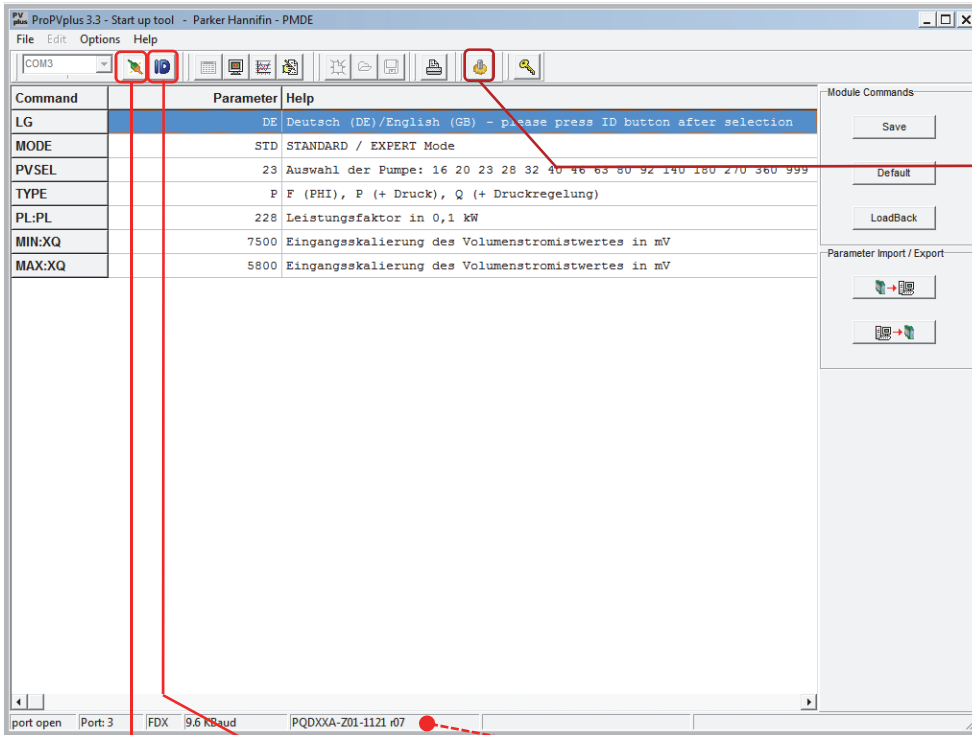
- Why ProPVplus 3.6 ?
- Functions
 - Communication and settings
 - In- and output of parameters
 - Monitor and module specific process data
 - Remote control and digital I/Os
 - Oscilloscope
 - Parameter data management
- USB-Driver, COM-Port Settings
- System Requirements

Why ProPVplus 3.6 ?

- Software for Parker Hannifins PQDXXA-Z10 electronic module
 - Setting and optimization of open- and closed loop controls with PC / notebook
 - Online analysis of process parameter
 - Display of status information
 - Intuitive operation

ProPVplus 3.6

Functions, Communication and Settings



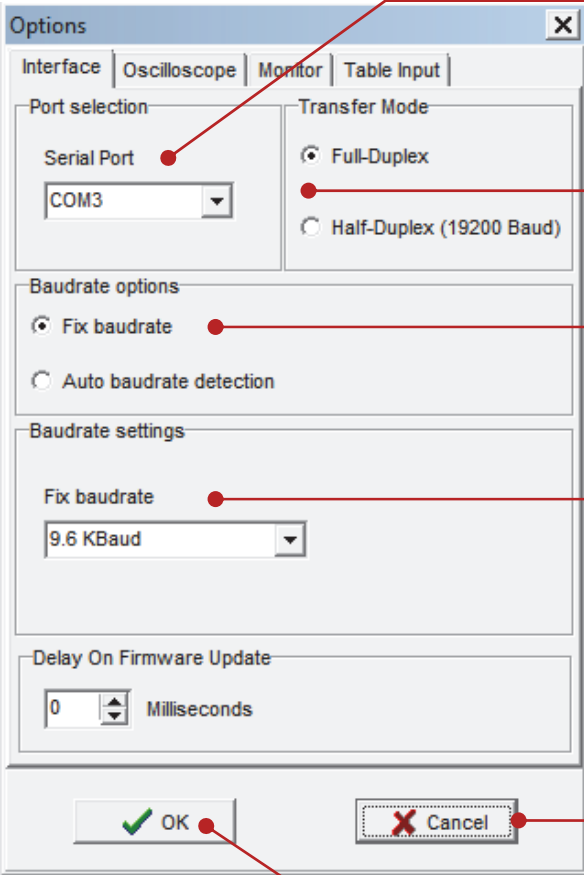
General settings

Module-Identification

Communication link

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Functions, Communication and Settings



The screenshot shows the 'Options' dialog box with the following sections and settings:

- Interface selection (COM-Port):** The 'Serial Port' dropdown menu is set to 'COM3'.
- Transfer Mode:** The 'Full-Duplex' radio button is selected.
- Baudrate options:** The 'Fix baudrate' radio button is selected.
- Baudrate settings:** The 'Fix baudrate' dropdown menu is set to '9.6 Kbaud'.
- Delay On Firmware Update:** The value is set to '0' milliseconds.

Annotations with red lines point to the following elements:

- Interface selection (COM-Port)
- Full-Duplex: All modules
Half-Duplex: Power plugs
- Fix baud rate or **automatic detection**
- Baud rate selection and/or automatic change to a defined value
 - 9,2 kBaud
 - 19,2 kBaud
 - 38,4 kBaud
 - 57,6 kBaud**
- Cancel
- Ok

ProPVplus 3.6

Functions, In- and Output of Parameters

The screenshot shows the ProPVplus 3.3 software interface. The main window displays a parameter list table with columns for Command, Parameter, and Help. Three input windows are open on the left, each corresponding to a parameter in the list: 'Input PLRPM Parameter', 'Input SENS Parameter', and 'Input AQ:UP Parameter'. Red lines connect the input windows to the parameter list and the toolbar icons. The toolbar icons include a grid icon (Parameter list) and a printer icon (Print parameter list).

Command	Parameter	Help
LG	DE	Deutsch (DE)/English (GB) - please press ID button after selection
MODE	EXP	STANDARD / EXPERT Mode
PVSEL	16	Auswahl der Pumpe: 16 20 23 28 32 40 46 63 80 92 140 180 270 360 999
TYPE	P	F (PHI), P (+ Druck), Q (+ Druckregelung)
P_NOMINAL	350	Systemdruck in bar
P_CORR	15	Korrektur Druck in bar
PL:EXT	INT	Interne oder externe Leistungsbegrenzung
PL:RPM	1500	Motordrehzahl in U/min
PL:PL	164	Leistungsfaktor in 0,1 kW
PL:T1	50	Zeitkonstante der Leistungsbegrenzung in ms
SENS	AUTO	Sensor Überwachung [ON/OFF/AUTO]
MIN:WQ	0	Eingangsskalierung des Volumenstromsollwertes in 0,01%
MAX:WQ	10000	Eingangsskalierung des Volumenstromsollwertes in 0,01%
AQ:UP	60	Rampenzeit (Volumenstrom) erster Quadrant in ms
AQ:DOWN	60	Rampenzeit (Volumenstrom) zweiter Quadrant in ms
MIN:WP	0	Eingangsskalierung des Drucksollwertes in 0,01%
MAX:WP	10000	Eingangsskalierung des Drucksollwertes in 0,01%
AIN:WP	V	Eingangssignalschaltung, Spannung oder Strom [V/C]
AP:UP	50	Rampenzeit (Druck) erster Quadrant in ms
AP:DOWN	50	Rampenzeit (Druck) zweiter Quadrant in ms
MIN:XQ	7529	Eingangsskalierung des Volumenstromistwertes in mV
MAX:XQ	7199	Eingangsskalierung des Volumenstromistwertes in mV

Parameter list

Print parameter list

- Easy Choice of parameters by „Mouse-Click“
- Parameters input are monitored
- Special parameters are entered via a tailored mask
- Data is immediately sent to the module and read back
- Detection of faulty entries

Input window

ProPVplus 3.6

Functions, Monitor and module specific process data

The screenshot displays the ProPVplus 3.5 software interface. The main window is titled "ProPVplus 3.5 - Start-up tool - Parker Hannifin Manufacturing Germany GmbH + Co. KG". It features a menu bar (File, Edit, Options, Help) and a toolbar with various icons. The interface is divided into several sections:

- Process Parameter:** A list of parameters with their nominal and actual values. Red lines connect these values to labels on the left:
 - WQ:** Schwenkwinkel Sollwert in % (Nominal value: 100,00 %; Actual value: 100,00 %)
 - XQ:** Schwenkwinkel Istwert in % (Nominal value: 130,00 %; Actual value: 130,00 %)
 - IQ:A:** Magnetstrom Q in mA (Nominal value: 0,00 mA; Actual value: 0,00 mA)
 - WP:** Sollwert in bar (Nominal value: 350,00 bar; Actual value: 350,00 bar)
 - XP:** Istwert in bar (Nominal value: 14,90 bar; Actual value: 14,90 bar)
 - IP:** Magnetstrom P in mA (Nominal value: 7,00 mA; Actual value: 7,00 mA)
- Remote Control / Status Info:** A section for remote control settings and status indicators. A red box highlights the status indicators:
 - Analogue Inputs:** Q (PIN 10), p (PIN 13), L (PIN 29) with input fields showing 0.
 - Digital Inputs / Outputs:** Checkboxes for Enable (PIN 8), pQ Enable (PIN 7), Ramp On (PIN 5), and not used options.
 - Status Info:** A list of status indicators with corresponding colored circles:
 - READY (Green)
 - POWER LIM (Yellow)
 - EEPROM (Red)
 - Cmd p (PIN13) (Red)
 - Sensor p (PIN14) (Red)
 - Cmd Q (PIN10) (Red)
 - Sensor Q (PIN6) (Red)
 - SOLENOID P (Red)
 - SOLENOID QA (Red)
 - SOLENOID QB (Red)
- Bottom Bar:** Displays system information: port open, Port: 5, FDX, 57.6 Kbaud, PQDXXA-Z10-2030-r01_t8.

Monitor

Nominal value (input signal)

Actual value (sensor signal)

Solenoid current (Q-valve)

Nominal value (input signal)

Actual value (sensor signal)

Solenoid current (p-valve)

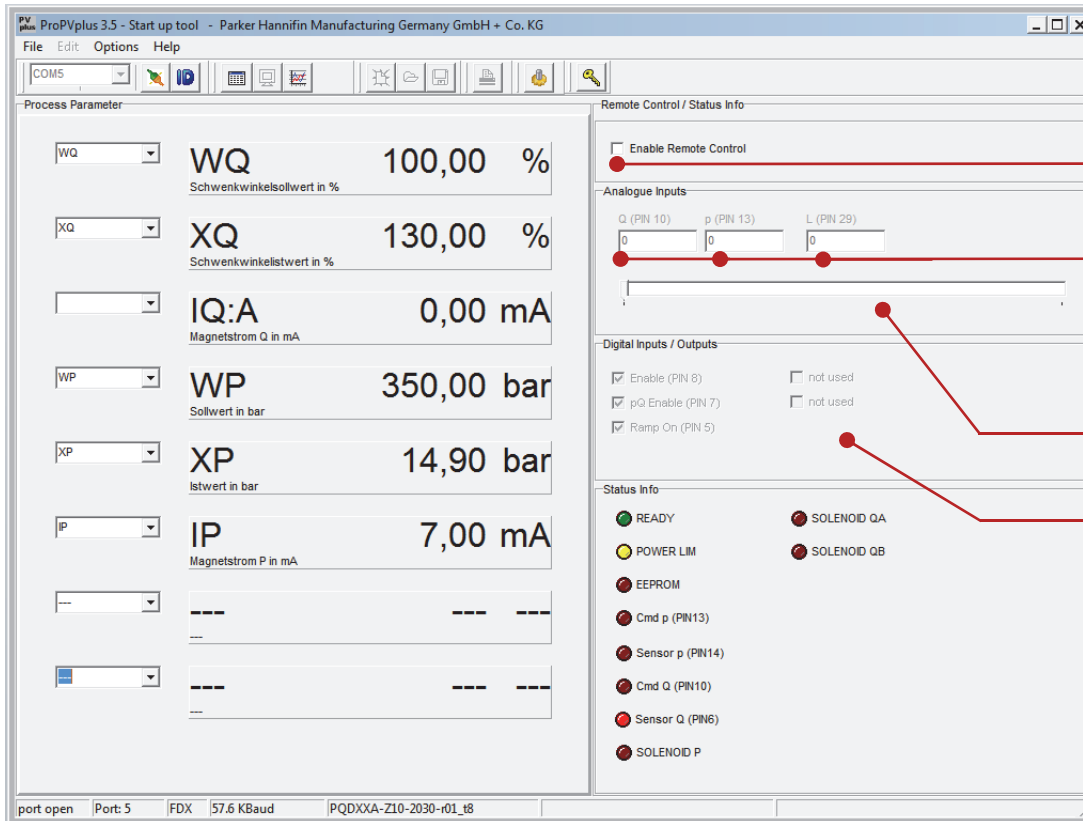
Display for further parameter

Module specific Display of process data

Module specific indicator of status information and error diagnosis

ProPVplus 3.6

Functions, Remote Control und digital I/O's



Activate remote control

Direct input for nominal values
PIN 10 – Cmd Q in 0,01%
PIN 13 – Cmd p in 0,01%
PIN 29 – Cmd L in 0,01%

Slide control for nominal values

Switches for digital I/O's

NOTE!

The functions are only enabled if remote control is enabled.

ProPVplus 3.6

Functions, Oscilloscope

Oscilloscope

Channel selection

Channel scaling

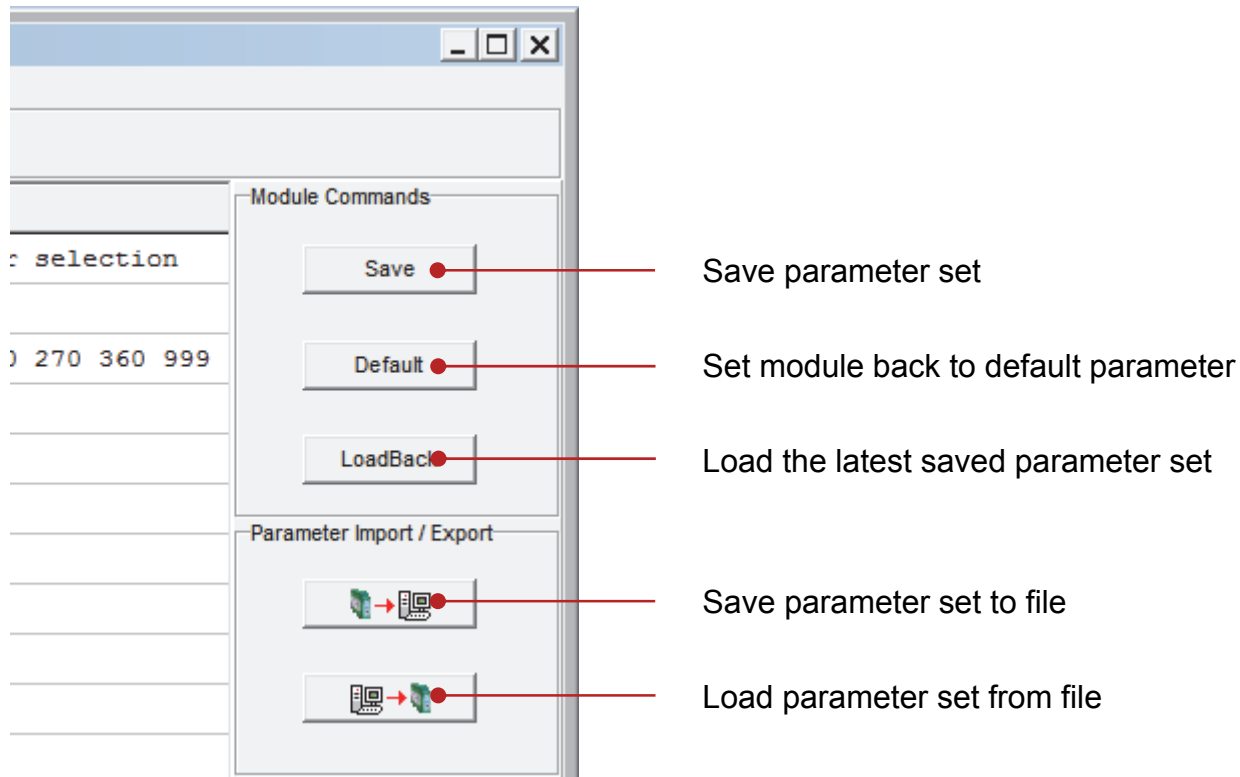
Save to file function

Graphical representation of the process data

Cursor functions for amplitude and time measurement and screenshot function (Right mouse button dialog)

ProPVplus 3.6

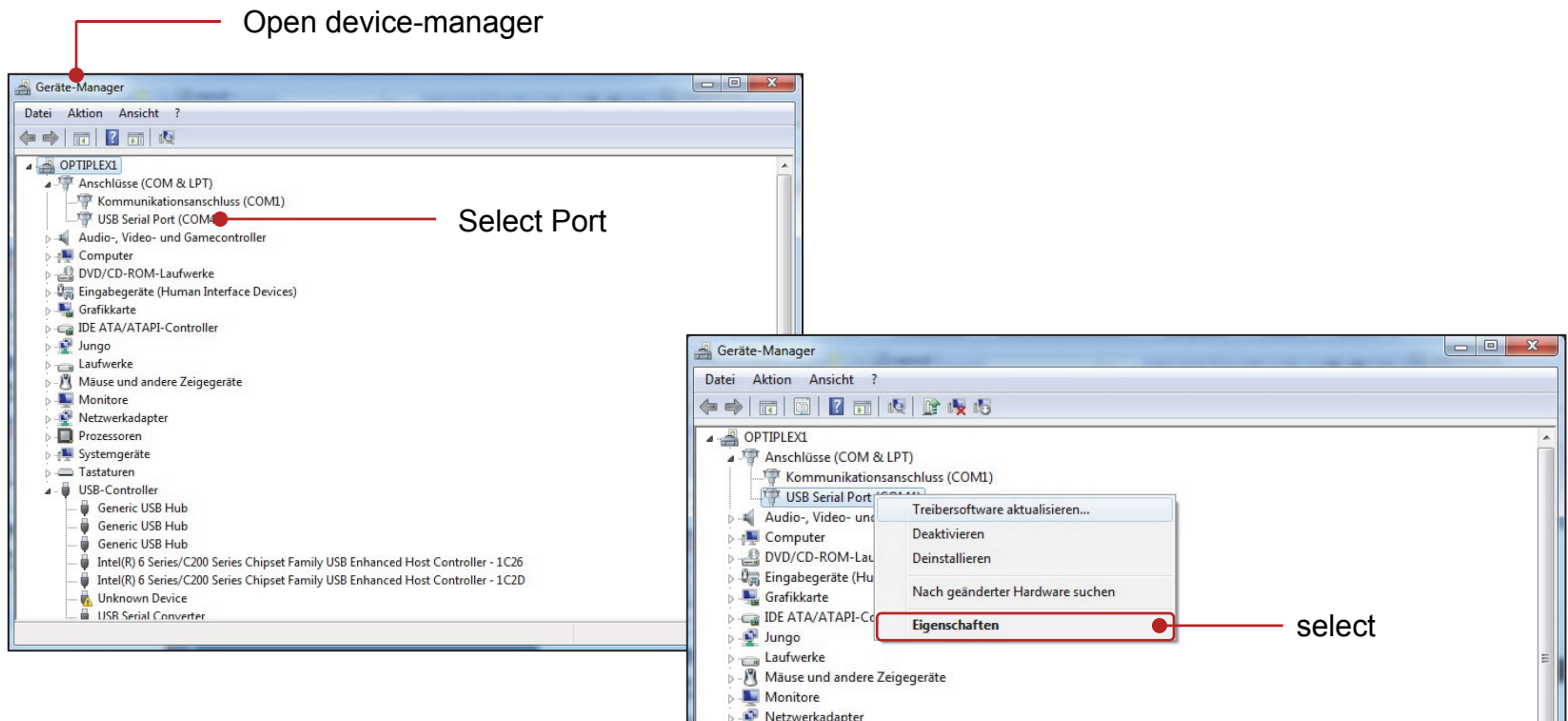
Functions, Parameter data management



ProPVplus 3.6

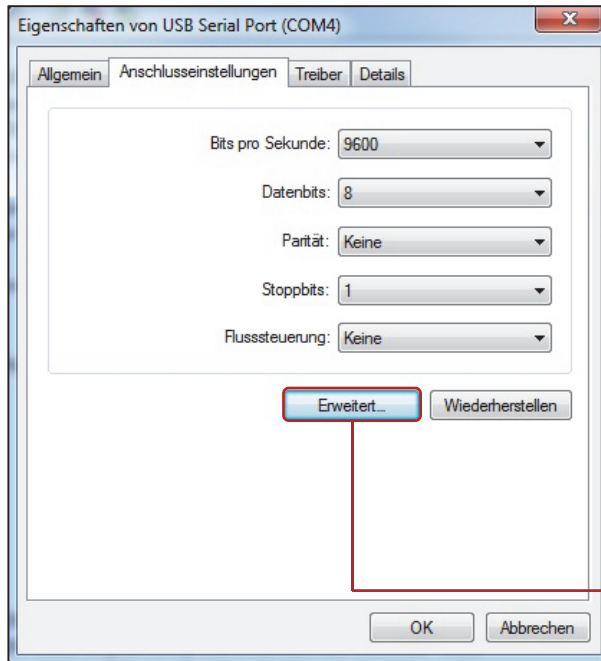
USB-Driver, COM-Port Settings

The USB-Driver gets installed automatically with ProPVPlus. The settings below needs to be adjusted at the COM-Port.

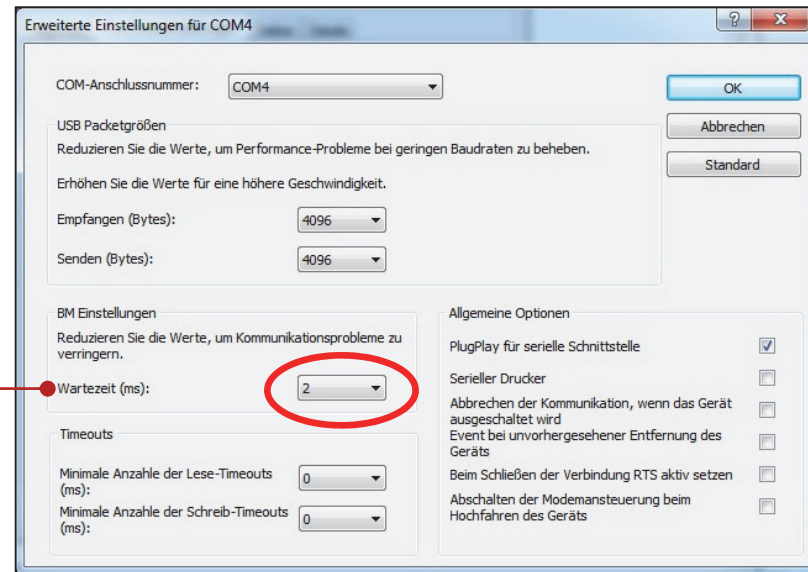


ProPVplus 3.6

USB-Driver, COM-Port Settings



Set waiting time to 2 ms



ProPVplus 3.6

System Requirements - Compatibility

- System requirements:
 - Memory: < 40 MByte
 - RA Memory: 512 MByte
 - Graphic: 1024 x 768
- Compatibility:
 - Windows XP
 - Windows VISTA
 - Windows 7
 - Windows 8

ProPVplus 3.6

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