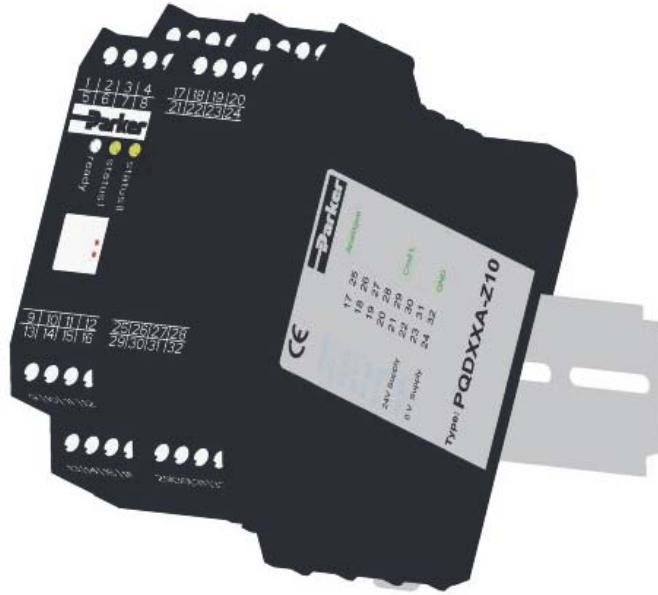


# PQDXXA-Z10

## Quick Guide

### English



ENGINEERING YOUR SUCCESS.

Effective: July 01, 2015



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# PQDXXA-Z10

## Electronic module

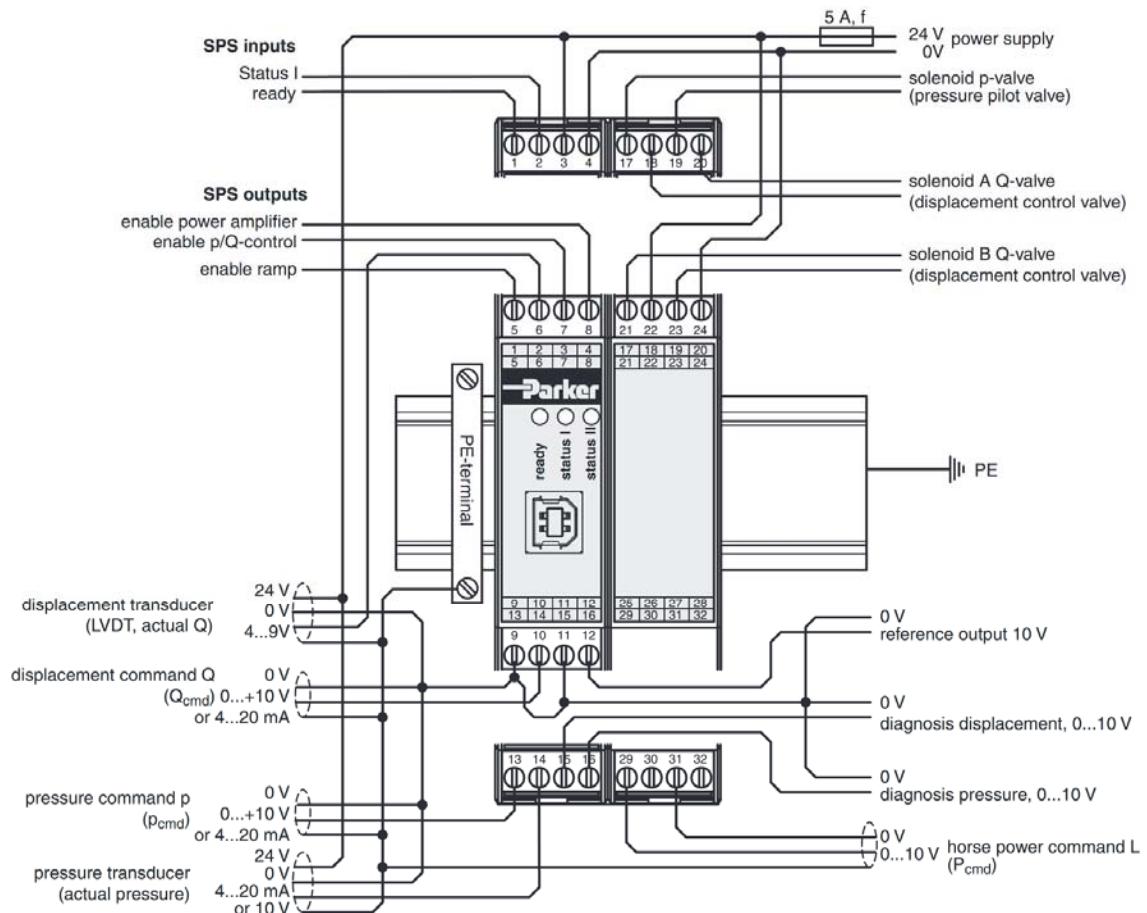


- Electronic module for all pump frame sizes & displacements
- Parameters set for every PV pump (PV016 to PV360) predefined at the module (Plug and Play)
- 100% reproducibility in all configurations and settings
- External data backup
- Offline edition of parameter sets
- Easy error diagnosis
- Parameterization with customary USB cable
- Hands-on control tuning due to online monitoring of PID gains

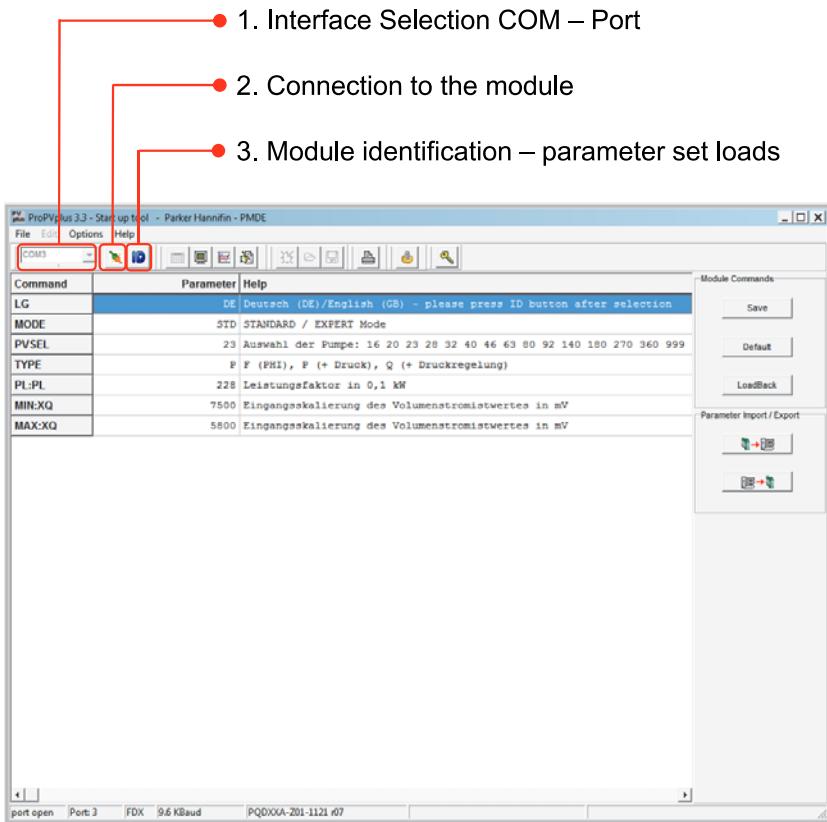
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- Basic setting of a parameter set
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# Electrical Wiring



# Connection to the module



Prerequisite: Installation of ProPVPlus3.x software and connection of the programming cable PQDXXA-ZXX-Kabel to the module. Base parameter sets for all displacement types are preinstalled on the module.

Download of the software and base parameter sets:

[www.parker.com/pmde](http://www.parker.com/pmde) > Support > Customer Toolbox



# Basic setting of a parameter set

## 1. LG – Language Selection

DE – German  
EN – English

## 2. MODE – Selection of the security level

- STD = Standard, All parameters for a first start up are shown.  
EXP = Expert, Parameter for further settings and the control system optimization are shown additionally to the standard parameter list.

## 3. PVSEL – Selection of the pump displacement

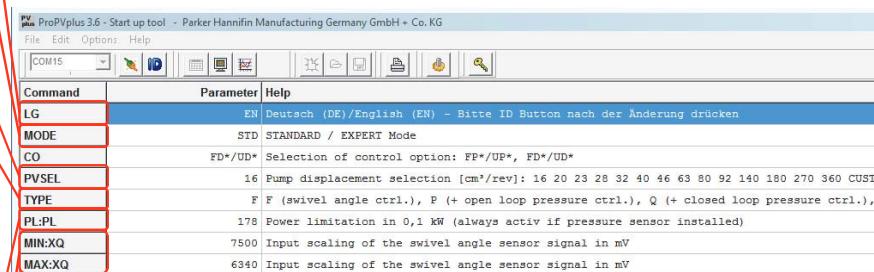
## 4. TYPE – Selection of the control type

- F – Swivel angle control  
P – Swivel angle control and open loop pressure control  
Q – Swivel angle control and closed loop pressure control  
 The horse power control is active since a pressure sensor is installed

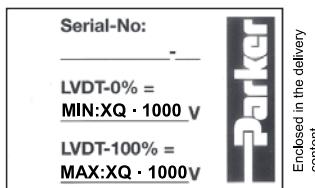
## 5. PL:PL – Horse power control

- Standard setting = Maximum according to the choosen pump displacement

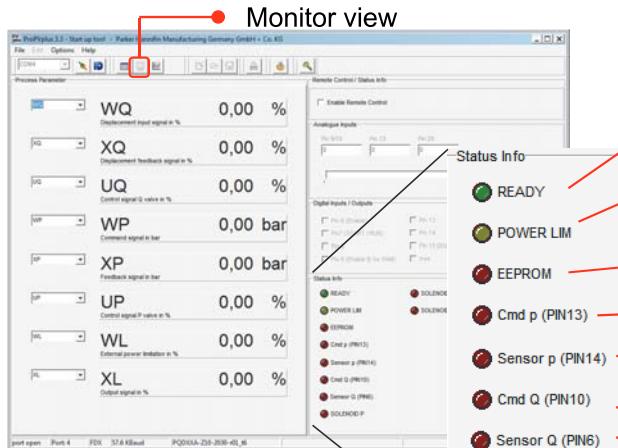
## 6. MIN:XQ / MAX:XQ – Swivel angle sensor scaling



Please review the Installation Manual for further parameter information.



# Online-error diagnosis ...with ProPVplus



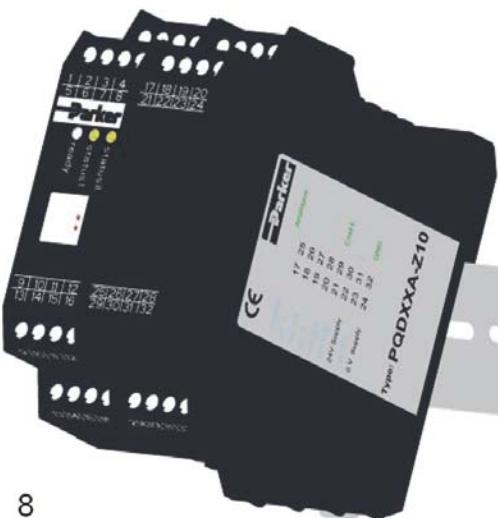
- On no Error, module ready for use
- Flashing Error, module not ready to use.  
Please review the points below for diagnosis.
- Power limitation active
- Error, Swivel Angle Valve Solenoid A/B (lead fracture or inappropriate connection)
- Memory error
- Error, command signal p (lead fracture, only for current signals)
- Error, pressure sensor (lead fracture or sensor malfunction)
- Error, command signal Q (lead fracture, only for current signals)
- Error, Swivel angle sensor (sensor malfunction or missing/wrong sensor scaling)
- Error, pressure valve solenoid (lead fracture or inappropriate connection)



# Offline-error diagnosis ...with Flash sequences

READY is flashing and...

READY      STATUS I      STATUS II



Error Category	Error Description	STATUS I	STATUS II
EEPROM	Memory Error		
Command Signal	Command Signal Pressure		
Command Signal	Command Signal Swivel Angle		
Sensor	Pressure Sensor		
Sensor	Swivel Angle Sensor		
Solenoid	Pressure Valve		
Solenoid	Swivel Angle Valve (Solenoid A)		
Solenoid	[Swivel Angle Valve (Solenoid B)]		

The power limitation is active if READY is not flashing and both STATUS I and STATUS II is on.



# FAQs

Why is no Connection to the module possible?	Module has not been recognised by computer. Reinstallion of the USB Diver
No function at the swivel angle control. Pump does not up stroke	Wrong scaling of the swivel angle sensor. Re-scale of the sensor, p.r.n with voltmeter.
Actual Value – Swivel angle higher than 100%	Wrong scaling of the swivel angle sensor. Re-scale of the sensor, p.r.n with voltmeter.
Pump is not down stroking	Pump is below the minimum controllable pressure. Installation of a pre-compression valve or pressure rising in the circuit.
Pressure function (TYPE = P) inaccurate	<ul style="list-style-type: none"> <li>• Fine tuning of CP:MINV (response threshold) and CP:MAXV (nominal current)</li> <li>• Fine tuning of the linearization (CC)</li> </ul>
When is a changed parameter active?	Immediately after input
Are the base parameter sets deleted with changes at the parameter?	<ul style="list-style-type: none"> <li>• Load back of the original base parameter set with „Default“.</li> <li>• Base parameter sets can be downloaded under <a href="http://www.parker.com/pmde">www.parker.com/pmde</a> &gt; Support &gt; Customer Toolbox</li> </ul>
When is the power limitation active?	The power limitation is active since a pressure reducer is installed and connected. With PL:EXT controls a external or internal (PL:PL) command signal.
How to limit the pressure function (systems maximum pressure)	The Parameter MAX:WP is used to limit the maximum pressure.
Is a switch of the ENABLE signal needed after each detected error?	<p>SENS = AUTO The module gets automatically reset after the failure or the defect is corrected.</p> <p>SENS = ON Sensor monitoring is activated. Reset has to be done manually.</p>
Does the module detect a change of p- and Q-Solenoid cables?	This error can't be detected by the module.
Does the module detect a change of Q-Solenoid cables?	This error can't be detected by the module.

# Contact

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