

CARLO GAVAZZI

## **DpcSoft** Software for DPC72 configuration

# **Instruction Manual**





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#### Installing DpcSoft Software



When the CD-ROM is inserted in the drive, launch the setup.exe file, follow the instruction and finally press "Install".

It is raccomended to save all current jobs and close all open applications before installing DpcSoft.

#### The software in brief



<b>T</b>	pcSoft	t 0.8
File	Help	
	Setup	)
	Exit	Ctrl+Q

DpcSoft has been developed to program DPC72 and its various versions. In order to do this, it is necessary to transfer data from PC to the instrument by means of 2-wire RS485 (\*). The right communication parameters must be chosen accordingly.

The software configuration is carried out by selecting "Setup" from the "File" menu.

(\*) In the RS485 communication, it is suggested to use the RS232/RS485 converter model SIU-PC2.

#### **DpcSoft Instruction Manual**

#### **Communication parameters**

RS-232 Device Languge
Ok

Select the communication parameters.

[01] Select the COM port to which the RS485/RS232 converter is connected.

[02] Select the correct Baud rate (same value as DPC72).

[03] Select the correct Data bits (8).

[04] Select the correct Parity (same choice as DPC72).

[05] Select the Stop bit (1).

[06] Select the instruments serial address (same value of DPC72, from 1 to 255).

#### **Driver selection**

- Setu	p		Sec. 1	an inned (		×
RS-232	Device	Languge				
	Dri	ver file name:	DPC72DM4	8-B003-ENT.I	DRIVER	
						Ok

Select the driver to be associated to DPC72. The driver must be relevant to the right DPC72 version and revision, and to the desired language. This language selection translates the variable and parameter names on the relevant window.

#### Language selection

두 Setup	Sec. Proc	hered and hered	X
RS-232 Device La	inguge		
Select language:	english taliano	Confirm	
			Ok

Select the desired language.

This language selection translated the messages, warning, headings of the different software pages.

#### **Real-time monitor**

VpcSoft 0.8	Bern Martin & B. S. Starting St.	
Real-time monitor		CMID GAVED
V L 3-L2 [/]	364,6	
V12-13 [/]	364,2	-
V L3-L1 [V]	364,9	പ്പ് ക്ലി
Phase sequence	3 phases, correct sequence	
Hz [Hz]	49,002	
D Hz [Hz/s]	0,016	
Aarm status	Overvoltage Undervoltage Overfrequency Underfrequency High der .freq.	
Real-time monitor	🗹 Data logoer 🕕 System events	
/ On line [DPC72DM48-8003].		

In this section, the instantaneous variables and alarm status can be monitored in real-time. Once this page is selected, DpcSoft will show the realtime data in a few seconds.

[1] Selection of the real-time page

- [2] Available instantaneous variables
- [3] Istantaneous value
- [4] LED's (green/red) indicating the alarm status[5] The blue arrow indicates that DpcSoft is trying going to read the value from DPC72

[6] Indication of any communication status or errors

### **Configuration page**

oningeration	LOBO	Save to Expor	t (1) Co	nfirm changes by turning to LOC	K position.	CARLD CA
Date and time [time]	17/11/09 13:32:33		Identification code	DPC72DI148-B003		
Firmware version	AD		Events from last reset	1		
Password	1	6	Power on time [s]	1		
Default page	Page 1	غ کے ج	Baudrate [baud]	9600	-	
Serial address	1	-	Parity	NONE	-	
Overvoltage control status	Enabled	+	Undervoltage control status	Enabled	-	
Overvoltage setpoint [V]	409,0	<b>-</b> ~	Undervoltage setpoint [V]	320,0		
Overvoltage delay time [s]	0,05 📥 🔿	غ کے	Undervoltage delay time [s]	0,05		
Overvoltage hysteresis [V]	12,0	-	Undervoltage hysteresis [V]	12,0		Fe
Overfrequency control status	Enabled	+	Underfrequency control status	Enabled	C	EC
Overfrequency setpoint [Hz]	50,30	1	Underfrequency setpoint [Hz]	4,9700		0
Overfrequency delay time [5]	0,07	հե	Underfrequency delay time [s]	0,05		
Overfrequency hysteresis [Hz]	0,100	Non	Underfrequency hysteresis [V]	9,0		~
High deriv.freq.control status	Disabled	+ 00	Wrong ph. seq. control status	Disabled	-	- 31
High deriv, freq. setpoint [Hz/s]	0,100		Hysteresis time for set point 4	wrong ph. seq.	-	•
High deriv.freq. delay time [s]	0,05		Wrong ph.seq. delay time [s]	0,00	_	լիթ
High deriv.freq. hysteresis [Hz/s]	0,020	Fa	Wrong ph.seq. hysteresis	0	- (	05
Remote control	no remote, relays deener	rgiz 🔻 🧲	Trimmer	LOCK		
Reset commend	2	- E				

Overfrequency control status
Overfrequency setpoint [Hz]
Overfrequency delay time [s]
Overfrequency delay time [s]

Overfrequency control status	Enabled	•	
Overfrequency setpoint [Hz]	70	>	<
Overfrequency delay time [s]	0,07	្ណា	h
		1	0

In this section the configuration parameters of DPC72 can be read and modified. Once this page is selected, DpcSoft will read all the actual parameters in a few seconds.

To modify the programming, the DPC72 front selector must be in "1", "2" or "3" position.

In "lock" position only the serial and time parameters can be changed.

For old revisions of models B001 and B003 (serial number BJ or previous) the programming must be changed in "lock" position only.

To modify a parameter select and modify its value (a pencil icon [8] appears to the right). Confirm and send the value by pressing enter.

To enable a function, a reset or a value among a list, select the new value on the list which appears by clicking the little arrow. [1]

Once the front selector is back in "lock" position, a lightning icon [9] indicates that the parameters is going to be overwritten. After the blue arrow icon [5], the new value is displayed.

For old revisions of models B001 and B003 (s/n BJ or previous) the new parameters value is going to be overwritten (lightning icon) as soon as enter is pressed.

If the new value is out of the admitted range, a red cross [10] will indicate that the wrong value (now highlighted in yellow) must be changed.

[2] Available parameters (white box)

[3] Read-only parameters (grey box)

- [4] Parameter value
- [5] Parameter status icon

[6] Remote control menu. It allows remotely controlling the activation/deactivation of the relays, independently from the alarm status

[7] Reset commands. It allows resetting the log data/counter or configuring the default settings.

6

#### Data logger page

PpcSoft 0.8	
File Help	
Data logger	Clear OKDEVAD
17/11/09 13:14 - Evere doum 17/11/09 13:14 - Underwoltage (294, 9 01) 05 17/11/09 13:15 - OverVoltage (11, 9 07) 17/11/09 13:15 - OverFrequency (89, 987 [Hz]) 17/11/09 13:19 - OverFrequency (49, 987 [Hz]) 17/11/09 13:19 - Underfrequency (49, 974 [Hz]) 17/11/09 13:19 - Underfrequency (49, 910 [Hz]) 17/11/09 13:19 - Underfrequency (49, 910 [Hz]) 17/11/09 13:19 - Underfrequency (317, 7 [V])	
Real-time monitor Configuration 😿 Data locater 🕕 System events	

In this section, the data logger events can be downloaded and analysed.

- [1] Manual data logger download
- [2] List of the downloaded events
- [3] Clear the event list on the page
- [4] Export the event list in Excel file
- [5] Select to automatically download the events on regular basis

[6] Select the time period between 2 consecutive downloads

Note: every download made by means of DpcSoft deletes the DPC72 datalogger memory area.

#### System events list

File Help	Real Real And Contractor	
System events	Save to Gear	CHIDGOD
System events		•
17-nov-2009 11.32.06: ->Prog_po		
17-nov-2009 11.32.06: ->Address		
17-nov-2009 11.32.06: ->Sp5_del	ay 00 02	
17-nov-2009 11.32.06: ->5p4_del	ay	
17-nov-2009 11.32.06; ->V_L2-L3		
17-nov-2009 11.32.06: ->Sp1_del	ay 🔼	
17-nov-2009 11.32.06: ->Sp5_hys	a <u>15</u>	
17-nov-2009 11.32.06: ->Firmwar		
17-nov-2009 11.32.06: ->Reset		
17-nov-2009 11.32.24: Loading d	evice driver	
17-nov-2009 11.32.24; Driver fi	le: 'C:\Users\userogc\Desktop\DpcSoft\drivers\D	PC72DM48-B003.driver'.
17-nov-2009 11.32.24: Driver na	me: 'DFC72-B003'.	
17-nov-2009 11.32.24: Driver ve	raion: '0.6 (under develop)'.	
17-nov-2009 11.82.24: Driver bu	ild date: '23/10/09'.	
17-nov-2009 11.32.24: Driver 1a	nguage: 'English'.	
17-nov-2009 11.32.25: 54 parame	ters found.	
17-nov-2009 11.32.25: ->Sp5_ena	ble	
17-nov-2009 11.32.25: ->Log2		
17-nov-2009 11.32.25: ->Log3		
17-nov-2009 11.32.25: ->Log1		-
17-nov-2009 11.32.25: ->Trimmer	pos	
17-nov-2009 11.32.25: ->Date_ti	me	
17-nov-2009 11.32.25: ->5p3_ena	ble	
17-nov-2009 11.32.25; ->Sp4_val	ue	
17-nov-2009 11.32.25: ->Alarm_s	tatus	-
Real-time monitor	Data logger 📵 System events	

In this section, the system events can be analysed (for problem-solving purpose only)

[1] List of the system events

[2] Clear the list of the system events on the page[3] Export the system events list in a debug (dbg) file