

Windows[™] Desktop App

DPD

Threephase Multifunction Monitoring Relay with NFC Communication

User Manual









DPD is a three-phase multifunction configurable monitoring relay suitable for both Delta and Star mains.

It protects loads from wrong phase sequence, neutral and phase loss, additionally voltage, frequency and asymmetry thresholds can be set and provide output signals.

DPD is delivered with a set of factory settings, among the two available ones, which are the most commonly used.

If factory default parameters are not completely suitable they can be modified according to own requirements, by a Windows PC or Android tablet and smartphone.

A Desktop and an Android apps are available, allowing to select on screen the required settings, save them, for future use and send the new configuration to the device to be configured.

NFC communication can also be used, by means of the proper app, to download the configuration from one device and to send the same configuration to n devices.

About factory settings, see "DPD DEFAULT PARAMETERS" table on the last page.





DPD Windows™ Desktop App





ACR1252U



DPD02DM44 or DPD02DM44B





System requirements

- OS : Windows 8 or higher
- FREE MEMORY : 200 Mb of free memory for installation and use
- COMMUNICATION : USB Port or Built in NFC reader / writer

ACR1252U NFC Reader Installation

The ACR1252U NFC Reader need the Driver installation for correct operation.

• Download the proper ACR1252U correct driver from one of following links:

http://www.productselection.net/Download/UK/ACR1252_Winx86_32bit.zip

http://www.productselection.net/Download/UK/ACR1252_Winx64_64bit.zip

- Select the 32 or 64bit driver according to your system requirement.
- \circ $\;$ Launch the setup for the NFC reader driver installation







DPD Windows Desktop App Installation

Application Download

• Download the Desktop APP from Carlo Gavazzi web site:

http://www.productselection.net/Download/UK/Setup_DPD.msi

- o Open the downloaded folder
- o Launch setup



• Launch the DPD Application from Windows start menu.







DPD DESKTOP APP

CREATE A NEW CONFIGURATION

Carlo Gavazzi Configuration So	ftware	-		×
Lock Device	Unlock Device Real time		\odot	٥
Configuration Create new configuration Load from a device Import from file Apply Model ID: 1 fan Monitoring Alarms: 5/10 Apply	Create a new configuration	a.		
Model ID: 1 Motor 3 Alarms: 4/10 Apply	Create new configuration			
Model ID: 1 Configuration 34	>			
Alarms: 5/10				

• Select "*Create new Configuration*" Either from screen centre button or from "+*Configuration*" of top left menu.

Lock Device	nlock Device	Real time	0 Q
+ Configuration	м	dei ID: 1	
Model ID: 1	*** M	nitoring of pump motor 1 mains	
MOTOR 1 Alarms: 7/10) Li 3F	е Туре	
Model ID: 1	••••	Seleziona il device per cui creare la configurazione Alarm 3 Frequency < 4.5Hz	
Alarms: 5/10	· ·	DPD-1 Alarm 6 Voltage > 177V	
Model ID: 1	•••	DPD-2	
Motor 3 Alarms: 4/10	> Pi Pt	tput 1	
	(((44 4.:	oltage < 552V OR Voltage > V) OR Frequency < Output 2 Hz) AND Frequency > 5.4Hz) (Frequency < 4.5Hz OR Frequency <	cy > 5.4Hz)
		Appt	Configuration

• Select DPD-2 (DPD-1 only for older units from 2017 or earlier)



ock Device Unlo	Real time		⊙ ¢
Create C	onfiguration		×
1 General	> Model ID	Line Type	
7/: Thresholds	2 Configuration Name	SPH SPH+N Detraveltage A	
1 Alarm) Max: 64	Min: 208 Max: 480	
5/: Output 1	> Description	400	
Output 2	> Max: 500		
1			
4/:			
			_
		N	ext → Hz)

• Insert "*Configuration Name*" max 64 characters, and project "*Description*" max. 500 characters.

Carlo Gavazzi (Lock I	Configuration Softwar Device Unite Create C	ock Device	Real time	- ×	□ × ○ ♀ • • •
Model ID: 1 MOTOR 1 A Alarms: 7/ Apply Model ID: 1 Fan 1 Mon A Alarms: 5/2 Apply Model ID: 1 Motor 3 A Alarms: 4/2 Apply	General Thresholds Alarm Output 1 Output 2	> > > >	Model ID 2 Configuration Name Max: 64 Motor Test Description Max: 500 Test program <u>for threephase</u> motors	Line Type SPH 3PH+N Delta voltage Min: 208 Max: 480 SBC	
			4.5Hz) (AND) Frequency > 5.4Hz)	Next > (Frequency < 4.5Hz or Frequency > 5.4	Hz)

- Select "Line type" between 3 Phase (Delta) or 3 Phase + Neutral (Star)
- Insert the Line rated voltage: from 208V to 480V in case of Delta mains or 120V to 277V in case of Star mains (Line to Neutral voltage)



Device	ock Device	Real time			⊙ ≎
Create C	onfigu	uration		×	
General	>	Model ID	Line Type		
Thresholds	>	2 Configuration Name	SPH 3PH+N		
Alarm	>	Max: 64	Delta voltage Δ Min: 208 Max: 480		
Output 1	>	Motor Test	38d \$		
Output 2	>	Description Max: 500			
		Test program for threephase motors			
			-h.		
				Next	
	_	4.5Hz) AND Frequency > 5.4Hz)	(Frequency < 4.5Hz OR	Frequenc	

• When finished with this page press the "Next" button

Create C	onfigu	ration	×
General	>	Threshold Alarms	
/: Thresholds	>	Alarm Not configured	
Alarm	>	Alarm	
Output 1	>	Alarm 5 - Not anfigured	
Output 2	>	 Alarm 6 - Not configured Alarm 7 - Not configured 	
		Alarm 8 - Not configured	
		Alarm 9 - Not configured	
/:		Tourn to roccompared	
			Next>

• On the following page the list of alarms is presented. Select one Alarm to enter its configuration.



ock Device Unic	ock Device	Real time		\odot
Create C	onfigu	ration		× 🖌
1 General	>	Threshold Alarms		A
7/: Thresholds	>	Alarm 1		_
1 Alarm	>	Alarm Threshold	• -1	
5/: Output 1	>	Inactive Voltage	Delay (s)	
Output 2	>	Frequency Asymmetry	Min: 0 Max: 60	
1		2	On: 0 Off: 0	
4/3		Alarm 2 - Not configured		
		Alarm 3 - Not configured		
		Alarm 4 - Not configured		
		Alarm 5 - Not configured		
				Next>
		4.5Hz) AND Frequency > 5.4Hz)	(Frequency < 4.5Hz	R Frequency > 5.4Hz)

• Once the alarm to be configured is selected the above windows opens. Select type of alarm between "*Voltage*", "*Frequency*" of "*Asymmetry*".

del ID: 1 General Threshold Alarms Alarm 1 Alarm Threshold Frequency Under 45 Hz (Min: 45 Max: 440)	Î
Alarm 1 Alarm 1 Alarm Threshold Frequency Under 45 Hz (Min: 45 Max: 440)	
Alarm Alarm Alarm Hz (Min: 45 Max: 440) 11 Mon Hz (Min: 45 Max: 440)	
kel (D): 1 Alarm > 1 Mon + Under • 45 Hz (Min: 45 Max: 440)	
1 Mon	
arms: S/. Output 1 > Hysteresis (%) Under Delay (s)	
Output 2 > Min: 2 Max: 5 Min: 0 Max: 60	
2 On: 0 Off: 0	
arms: 4// Alarm 2 - Not configured	
Alarm 3 - Not configured	
Alarm 4 - Not configured	
Alarm 5 - Not configured	*

- For Voltage or Frequency select "Over" or "Under" if it necessary to detect Overvoltage / Under-voltage or Over-frequency / Under-frequency. For Asymmetry this selection is disabled
- Input the threshold value in the right window.



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21/11/2017

svazzi comiguration sortware								0	~
Lock Device Unlo	k Device Real time							- 60	Q
Create Co	onfiguration						×	· 1	Î
R 1 General	> Threshold Alarms								
s: 7/: Thresholds	Alarm 1								
Alarm	Alarm Threshold								
/on	Voltage •	Under •	360	V (M	in: 177 N	4ax: 552)			
s: 5/: Output 1	> Hysteresis (%)		Delay	(s)					
Output 2	> Min: 2 Max: 5		Min: (0 Max: 60)				
3	4 2		On:	0,00	Off:	0,00			
s: 4/t	Alarn ent	igured							
	Alarn Alarn	igured							
	Alarm 5 - Not cont	igured						•	
							Next >		
	4.5Hz) AND Frequence	(> 5.4Hz)	_	(Frequ	iency < 4	5Hz OR	Frequency > 5	i.4Hz)	

• Input the "*Hysteresis*" value between 2% and 5%.

Create C	onfigu	ation	××
TOR 1 General	>	Threshold Alarms	<u> </u>
arms: 7/:	\$	🜲 Alarm 1	
		Alarm Threshold	
el ID: 1 Alarm	>	Voltage Vunder 360	V (Min: 177 Max: 552)
1 Mon arms: 5/: Output 1	>	Hysteresis (%) Dela	iy (s)
Output 2	>	Min: 2 Max: 5 Min:	0 Max: 60
el ID: 1		4 On:	1,00 Off: 5,00
or 3 arms: 4/1		Alarm 2 - Not configured	
ply		Alarm 3 - Not configured	
		Alarm 4 - Not configured	
		Alarm 5 - Not configured	
			Next

 Input, if required, a "Delay ON Alarm", from 0.1s to 60s, and / or a "Delay OFF Alarm" from 0.1s to 600s (10')

Next to proceed to following page.



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o Press

ock Device Unlo	ck Device	Real time		0
Create C	onfigu	iration	>	< 🖊 🗯
1 General	>	Caution It is not recommended to edit the	default settings	
7/: Thresholds	>	Phase Loss enable 🔽	Phase Sequence enable 😾	
1 Alarm	>	Phase Loss Threshold	Measure Out Of Range enable 🗸	
Output 1	>	Min: 60 Max: 90		
Output 2	>			
1				
4/1				
			Nexts	
-		4.5Hz) AND Frequency > 5.4Hz)	(Frequency < 4.5Hz OR Frequency	> 5.4Hz)

 In the alarm page it is possible to disable the "Phase Sequence", the "Phase Loss" and the "Out of Range Measurement" detection alarms. It is also possible to set the "Phase Loss" and the "Neutral Loss" (when configured as "Star" mains)

DO NOT MODIFY THESE DEFAULT SETTINGS UNLESS AWARE OF THEIR FUNCTION. IMPROPER SETTING MAY IMPAIR THE MAIN DEVICE PURPOSE.

Next > Press to proceed to following page. 🐺 Carlo Gavazzi Configuration Software Lock Device Unlock Device Real til х **Create Configuration** General > MOTOR 1 Output type Normally de-energized ormally energized Thresholds > Alarm > Active Alarms Fan 1 Mor /oltage < 360V Output 1 Alarm 2 - Voltage > 400V Output 2 > Alarm 3 - Frequency < 48.5Hz Alarm 4 - Frequency > 51.5Hz Motor 3 Alarm 5 - Asymmetry > 10% Alarm 6 - Not configured Alarm 7 - Not configured arm 8 - Not configured Next -

• On this page it is possible to associate configured alarms to "*Output 1*". Output can be configured to operate as "*Normally Energized*" or "*Normally De-Energized*"



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0

ock Device Unit	ock Device	Real time		\odot
* Create C	onfigu	ration		× 🖊 🕯
1 General	>	Output type		*
7/: Thresholds	>	Normally energized Normall	y de-energized	
1 Alarm	>	Alarms	Active	
on 5/: Output 1	>	Alarm 1 - Voltage < 360V	Alarm 1 - Voltage < 360V	-
Output 2	>	Alarm 2 - Voltage > 400V		
1	·	Alarm 4 - Frequency > 51	Alarm 2 - Voltage > 400V	
		Alarm 5 - Asymmetry > 10%		
4/:		Alarm 6 - Not configured		
J		Alarm 7 - Not configured		
		Alarm 8 - Not configured		
			Ne	xt
		4 5Hz) AND Frequency > 5 4Hz)	(Frequency < 4.5Hz OR Frequen	1cv > 5 4Hz)

- Select one or more alarms to be associated to the Output.
- If more than one alarm are selected the "*OR*" / "*AND*" option appears. In this case the alarms will operate according to the Boolean operator used in between them.

Lock [Device Un	lock Device	Real time		• •
•	Create C	Configu	ration		× 🖍 🕯
ID: 1	General	>	Output type		Â
erms: 7/: ply	Thresholds	>	Normally energized Normall	y de-energized	
el ID: 1	Alarm	>	Alarms	Active	- 100
1 Mon rms: 5/:	Output 1	>	Alarm 1 - Voltage < 360V	Alarm 3 - Frequency < 48.5Hz	
ply	Output 2	>	Alarm 2 - Voltage > 400V	Alarm 4 - Frequency > 51.5Hz	
or 3			Alarm 4 - Frequency > 51.5Hz	OR AND	
arms: 4/:			Alarm 6 - Not configured	Alarin 5 - Asyninetry - 10%	- 1
			Alarm 7 - Not configured		
					Sav
			4.5Hz) AND Frequency > 5.4Hz)	(Frequency < 4.5Hz OR Frequ	enc
			4.5Hz) AND Frequency > 5.4Hz)	(Frequency < 4.5Hz OR Frequ	enc

• Once the alarms have been associated on both "*Outputs*". Press "*Save*" to exit configuration and save the configuration.





- A last page is displayed summarising all the settings of the just created configuration.
- If everything is correct press "*Apply Configuration*" to send the configuration to the target DPD(s).



• Place the reader next to front face of DPD





• As soon as the reader detects the DPD the above window appears with the indication of the Serial number detected.



• If the serial number of the target DPD corresponds to this one the press "Confirm relay" Else select "change relay" and try again.



👎 Carlo Gavazzi Configuration Sof	iftware – 🗆 X
Lock Device	Unlock Device Real time 📀 🗘
+Configuration Model ID: 1 MOTOR 1 A Alarms: 7/10 Apply Model ID: 1 Apply Model ID: 1 Model ID: 1	Motor Test Model ID:2 Test program for threephase motors Lir Configuration applied successfully! Th Pr Pr
Motor 3 Alarms: 4/10 Apply Model ID: 2 Motor Test	Ph Apply again Done ut 2 Output 1 ((Frequency × 48.5Hz OK Frequency > (Voltage < 360V OR Voltage > 400V) \$1.5Hz) Asymmetry > 10%)

- When the configuration has been uploaded to DPD the above window appears.
- If it is necessary to configure another DPD with the same configuration press "*Apply Again*". Else press "*Done*"

LOAD CONFIGURATION FROM ANOTHER DPD

Lock Device	Unlock Device	eal time	•	¢
+ Configurati	on tion 	Create a new configuration		
Apply Model ID: 1 Motor 3 Alarms: 4/10 Apply	~	or import an existing one from a device Create new configuration Load from a devic		
Model ID: 2 Motor Test Alarms: 5/10 Apply	>			

• With the DPD App it is possible to download the configuration from another DPD and then store it, modify it or send it to another DPD.





- To select this function, from main page, either select "Load from a Device" in the screen centre or "+Configuration" then "Load from a Device".
- In both cases the following pop-up appears.



• When the reader detects the DPD the following pop-up appears



• If the Serial Number of the device from which is necessary to download the configuration is correct press "*Confirm Relay*" else press "*Change Relay*" and try again.



- When the above pop-up appears the configuration has been successfully downloaded.
- Press "Done" to see the summary of the downloaded configuration.



21/11/2017



- Downloaded configuration is automatically saved with an automatically generated name: "*Configuration nn*" where nn is a sequential numbering.
- The configuration can be uploaded to another DPD as it is by pressing "*Apply Configuration*".

🔻 Carlo Gavazzi Configuration S	Software			-		×
Lock Device	Unlock Device	Real time			\odot	٥
+ Configuration	n	Configuration Model ID: 2	1 42			
Model ID: 1 Fan 1 Monitoring Alarms: 5/10 Apply	*** >	Line Type 3PH - 380V Threshold Alarms				
Model ID: 1 Motor 3 Alarms: 4/10 Apply	>	Alarm 1 Voltage < 360V Alarm 4 Frequency > 51.5Hz Priority Alarms	Alarm 2 Voltage > 400V Alarm 5 Asymmetry > 10%	Alarm 3 Frequency < 48.5Hz		
Model ID: 2 Motor Test Alarms: 5/10	>	Phase Loss Threshold: 85% Output 1 (Voltage < 360V OR Volta	ge > 400V)	Output 2 ((Frequency < 48.5Hz OR Frequency > 51.5Hz) AND Asymmetry > 10%)		
Model ID Configu Alarms Apply Duplicate	tion			ApplyCor	figuratio	n

- Configuration can be edited by pressing "*Edit Configuration*" or the top right pencil.
- Duplicated by pressing "Duplicate".





• Exported as a windows file, to any desired location, as "*filename.cg*", by pressing "*Export Configuration*".

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Irganizza 🔻 Nuova cartella					855 -	0
Documenti Blocchi appunti di One Documenti vari DPD Configurations File di Outlook Freemake HiSuite IBM Launches	Note Nome	∧ Nessun eleme	Ultim.	a modifica criteri di ricero	Tipo ca.	
- modelli	~ <					
	ion 42.cg					~
Nome file: Configurat						

• Exported files can be used as any other windows file once exported

The Condition Visualizza				^ U
Aggiungi ad Copia Incolla Copia percorso Copia Incolla collegamento Appunti	Sposta in - X Elimina -	Nuova cartella Nuovo	Apri - Modifica ietà Apri Apri	Deseleziona tutto Deseleziona tutto Inverti selezione Seleziona
← → × ↑ 📙 > This PC > Documenti > DP	D Configurations	ٽ ~	Cerca in DPD Co	onfigurations ,P
la OneDrive	* ^	Nome	^	Ultima modifica
🗟 Documenti	*	Test Export Proje	ct DPD.cg	27/10/2017 10:02
🕹 Download	*			
📰 Immagini	*			
PG40				

• Exported file can be imported.





• Press "+Configuration" and then "Import from File"

Carlo Gavazzi Configuration So	ftware		X
Lock Device	Unlock Device	Real time	0 ¢
+ Configuration		Configuration 42	/ 💼
Арріу	* N	odel ID: 2	
lodel ID: 1	··· L	пе Туре	
an 1 Monitoring	>3	×	
Alarms: 5/10	Т	Select the file to import	
		Alarm 3	
lodel ID: 1		Scegli file Nessun file selezionato Frequency < 48.5Hz	
Alorms: 4/10	>		
Apply	P		
	P		
Aodel ID: 2		nut 2	
Alarms: 5/10	> c	uency < 48.5Hz OR Frequency >	
Apply	0	oltage < 360V OR Voltage > 400V) 51.5Hz) AND Asymmetry > 10%)	
Andel ID: 2		AnnhuContinu	ration
Configuration 42	× 1	Apply Comga	ation
Alarms: 5/10	/		
Apply	*		

• Select the file you want import from the computer directories. And then press "*Import*".

DEVICE LOCKING / UNLOCKING (Only possible when DPD is powered)

👎 Carlo Gavazzi Configuration S	oftware	– 🗆 X
Lock Device	Unlock Device Real time	• •
+ Config Model ID: 1 MOTOR 1	Motor Test Model ID: 2 Test program for threephase motors	/ =
Alarms: 7/10	Line Type 3PH-380V	
Model ID: 1 Fan 1 Monitoring Alarms: 5/10 Apply	Threshold Alarms Alarm 1 Voltage < 400V Alarm 3 Frequency < 4	8.5Hz
Model ID: 1 Motor 3 Alarms: 4/10	Frequency > 51.5Hz Asymmetry > 10% Priority Alarms Phase Loss Threshold: 85%	
Apply Model ID: 2	Output 1 ((frequency < 48.5Hz (Voltage < 360V OR Voltage > 400V) **** (Voltage < 360V OR Voltage > 400V)	OR Frequency > etry > 10%)
Motor Test Alarms: 5/10 Apply	>	Apply Configuration
Model ID: 2	***	

- After the DPD(s) is configured it may be necessary to lock the device in order to avoid unauthorised access and modification of configuration data.
- Press "Lock" to enter the locking procedure.





• When the above pop-up appears place the reader next to DPD to be locked front face.

X
Verify the serial number and the model
ID match the following:
Serial: B179007L
Model ID: 2
Change relay Confirm relay

• Check the serial number of the device to be locked. If correct press "Confirm Relay"

×
Lock the device
Insert a new 4-digit pin to lock the device
0 0 0 0
Cancel Lock

• Insert a 4 digit <u>numerical</u> pin and the press "Lock"

TAKE NOTE OF THE INSERTED PASSWORD FOR FUTURE REFERENCE IN CASE IT WILL BE NECESSARY TO MODIFY THE DEVICE CONFIGURATION!



• If it is required to modify the configuration on a locked device it is first of all necessary to proceed with the device unlocking.

Carlo Gavazzi Configuration S	Software	- -		×
Lock Device + Configuration Model ID: 1 MOTOR 1 Apply Model ID: 1 Fan 1 Monitoring Alarms: 5/10 Apply Model ID: 1 Motor 3 Alarms: 4/10 Apply	Unlock Device Roal time n	Create a new configuration or import an existing one from a device Create new configuration	Ξ	0
Model ID: 2 Motor Test Alarms: 5/10 Apply	···· >			

• Press "Unlock" to start unlocking procedure



 \circ $\;$ When the above pop-up appears place the reader next to DPD front face.



		×
Verify the	serial number an	d the model
ID match t	he following:	
	Serial: B179007	L
	Model ID: 2	
	Change relay	Confirm relay

• Confirm the relay correct serial number

×
Lock the device
Insert a new 4-digit pin to lock the device
0 0 0 0
Cancel Lock

• Input the 4 Digit <u>numerical</u> PIN that has been used for locking the device.

NOTE: if the PIN has been lost please contact Carlo Gavazzi customer service <u>providing the</u> <u>device serial number</u>. The password provided will only work on the unit for which it has been relased.

• Once the password has been used for device unlocking the old password is lost and it is possible to input a new one.





REAL TIME MONITORING (Only possible when DPD is powered)

On the DPD with model ID: 2 it is possible to read the operation status at any time during operation.

The real time allows the reading of all the Alarms status, the last alarm occurred and the measurement values: L1, L2 and L3 voltages, frequency and asymmetry.



• Select "Real Time".



 \circ $\,$ Place the NFC reader next to the DPD front face



	\times
Verify the serial number and th	e model
ID match the following:	
Serial: B179007L	
Model ID: 2	
Change relay Con	nfirm relay

• Confirm the source device Serial number

Lock					-	•	4
+	Real time						
IID: 1	Alarm status Electri	cal values					
or 3 rms: 4/:	Last triggered ala	rm			•		
ply	No alarm triggered				Ш		
IID: 2					Ш		
or Test	Non-priority alar	ms					
rms: 5/:	A1 Voltage > 420V	A2 Voltage < 350V	A3 Frequency > 51.3Hz	A4 Frequency < 48.2Hz			
му	Off	Off	Off	Off			
ID:2	A5 Asymmetry > 18%				11		
or 1 Ül	Off				11		
ply	Priority Alarms				Ш		
11D: 2	Phase loss	Neutral loss	Phase sequence	Out of range value			
igurat	Off	Off	Off	Off			
bly	Outputs						
					Y		

- After around 2 seconds the real time screen appears.
- The real time function contains 2 pages: Alarm status and Electrical values.
- Alarm status displays the status of all the configured non priority alarms and the status of all priority alarms. When everything is OK characters are GREEN.



221 - DPD Manager					×
				- 0	~
				X	
Real time					
Alarm status Electi	ical values				
Last triggered ala	arm			î.	
Phase sequence				1.88	
Non priority alay	100 0			1.88	
a Non-priority alar	ms				
			1		
A1 Voltage > 420V	A2 Voltage < 350V	A3 Frequency > 51.3Hz	A4 Frequency < 48.2Hz		
A1 Voltage > 420V Off	A2 Voltage < 350V Off	A3 Frequency > 51.3Hz Off	A4 Frequency < 48.2Hz Off		
A1 Voltage > 420V Off A5 Asymmetry > 18%	A2 Voltage < 350V Off	A3 Frequency > 51.3Hz Off	A4 Frequency < 48.2Hz Off		
A1 Voltage > 420V Off A5 Asymmetry > 18% Off	A2 Voltage < 350V Off	A3 Frequency > 51.3Hz Off	A4 Frequency < 48.2Hz Off		
A1 Voltage > 420V Off A5 Asymmetry > 18% Off Priority Alarms	A2 Voltage < 350V Off	A3 Frequency > 51.3Hz Off	A4 Frequency < 48.2Hz Off		
A1 Voltage > 420V Off A5 Asymmetry > 18% Off Priority Alarms	A2 Voltage < 350V Off	A3 Frequency > 51.3Hz Off	A4 Frequency < 48.2Hz Off		
A1 Voltage > 420V Off A5 Asymmetry > 18% Off Priority Alarms Phase loss	A2 Voltage < 350V Off	A3 Frequency > 51.3Hz Off Phase sequence	A4 Frequency < 48.2Hz Off Out of range value		

- Anomalies are displayed in RED.
- The last triggered alarm displays the last alarm that was chronologically triggered by the DPD. This alarm is kept until the DPD is powered.

🐺 Carlo Gavazzi -	DPD Manager			-		×
Lock				\times	\odot	۵.
t t	Real time					
Model ID: 1	Alarm status Electrical values					
Motor 3	Voltage Phase-Phase			•		
Apply	Reading on: 14 Nov 2017, 11:45:19 am Line Type: 3PH 400V	1		Ш		
Model ID: 2	Nominal / Actual Voltage Difference			11		
Alarms: 5/:	400 V	401 V	404 V	11		
Apply	• 1-2	2-3	• 3-1	11		
MadelUD: 0				11		
Motor 1 Ül				11		
Alarms: 5/1				11		
Apply				11		
Model ID: 2	0.0%	0.2%	10%	11		
Configurat	0.0 %	0.5 %	1.0 %	11		
Alarms: 0/:	Asymmetry	Frequency				
Apply	1%	49.9 Hz				
Model ID: 2	*** 👻			_		

• Electrical values page displays the Line to Line voltages. 3Ph + Neutral systems also show the Line to Neutral voltages.



Lock						X	0	¢
Real	time							
1 Alarm s	tatus Electrical values							
Voltag	e Phase-Phase					*		
Reading of	n: 14 Nov 2017, 11:47:38 an	1				11		
Nominal /	Actual Voltage Difference					11		
Nominal/	Actual voltage Difference	2001/		400.14		11		
288 V		289 V 2-3		408 V		11		
						ы		
						11		
1						11		
						11		
	28.0.%		27.9.9/		20%			
nat	-20.0 %		-27.070		2.0 /0	11		
Asymmetr	Y	Frequency						
30 %		49.9 Hz						

- The graphs below readings show graphically the amount of deviation between the set value and the actual reading. The less colour the better it is!
- $\circ~$ The graph goes from -30% (CCW) to +30% (CW).
- Below -30% and above 30% the graph remains the same.
- Asymmetry value and grid frequency are also displayed.





DPD DEFAULT PARAMETERS

		PART NUMBER			
PAGE	ITEM	DPD02DM44	DPD02DM44B		
	LINE TYPE	DELTA	DELTA		
GRID TYPE	RATED LINE VOLTAGE	400VAC	240 VAC		
	POWER ON DELAY	Os	Os		
	ALARM 1	OVERVOLTAGE	OVERVOLTAGE		
	Voltage Value	440VAC	264 VAC		
	Hysteresis	2%	2%		
	Delay ON	Os	Os		
SETDOINTS	Delay OFF	Os	Os		
SEIPOINTS	ALARM 2	UNDERVOLTAGE	UNDERVOLTAGE		
	Voltage Value	360VAC	216 VAC		
	Hysteresis	2%	2%		
	Delay ON	Os	Os		
	Delay OFF	Os	Os		
	PHASE LOSS ENABLE	ON	ON		
	PHASE LOSS THRESHOLD	85%	85%		
PRIORITY ALARMS	NEUTRAL LOSS	NOT ACTIVE	NOT ACTIVE		
	PHASE SEQUENCE ENABLE	ON	ON		
	OUT OF RANGE MEASUREMENT	ON	ON		
	ASSIGNMENT	ALARM 1	ALARM 1		
OUTPUT 1	LOGIC	NORMALLY ENERGIZED	NORMALLY ENERGIZED		
	LOGIC OPERATORS	NONE	NONE		
	ASSIGNMENT	ALARM 2	ALARM 2		
OUTPUT 2	LOGIC	NORMALLY ENERGIZED	NORMALLY ENERGIZED		
	LOGIC OPERATORS	NONE	NONE		

