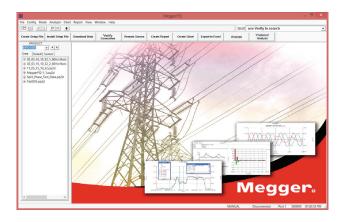
Megger Power Quality Analysis Software



- Custom Configurations based on Customer Complaint
- Automatic Data Analysis
- Remote Control
- Harmonic Analysis through 128th order
- Customizable Charts and Reports
- EN50160 Analysis and Reporting
- Customize software for region

DESCRIPTION

The Megger power quality analysis software is a complete software package which supports the Megger MPQ Analyzers. This software has the ability to generate custom analyzer configurations based on the reported power quality problem being investigated. In addition to report and chart generation, this software has an automatic data analysis feature.

The Megger power quality analysis software has a built-in dashboard for simple and easy analysis of power quality events. Use filters to parse through events so you see only what you need. You can also perform detailed harmonic analysis of the event waveforms.

The software provides a waveform harmonic dashboard which allows for simple harmonic analysis. View harmonic trending, waveforms and FFT's all on the same dashboard. Create detailed harmonic analysis through the 128th order. Additionally, you can view the direction of the harmonics.

The software supports a multitude of reports and charts which allows for easy analysis of power and energy, power factor, power quality phenomenon, harmonics, inter-harmonics, Total Harmonic Distortion (THD) and Total Demand Distortion (TDD) as well as flicker and unbalance, and more.

The software also supports USB and Ethernet communications. It allows you to control the power quality analyzer remotely. Transfer data via the USB port, Ethernet port, USB stick or an SD card.

The Megger PQ software is a versatile and highly powerful tool

FEATURES AND BENEFITS

 Custom configurations based on customer complaint — Select the reported customer problem from a drop-down menu. The software creates a customized setup. You do not have to be a PQ expert.

- One-touch automatic data analysis The software will perform automatic data analysis based on standard or custom templates. Perform analysis with the touch of one button. Save time analyzing a data file.
- Remote control (Ethernet) Control an MPQ analyzer remotely in the field through Ethernet or use an off-the-shelf wireless bridge. No need to travel back and forth between locations.
- Detailed harmonic analysis through 128th order Perform high frequency analysis. Ideal for today's high speed switching inverters.
- Customizable charts and reports View the data the way you want.
- EN50160 analysis and reporting Perform an EN50160 analysis with the touch of one button. Fast and simple analysis.
- Customize software for region Customize software terminology for your region. View your data the way you want.
- Power quality event analysis A power quality event dashboard complete with event filter allows you to see the events and waveforms you want to see, making analysis simple.
- Waveform analysis A powerful waveform analysis dashboard allows you to quickly and easily view waveforms and harmonics on one screen.
- Export data to Excel Export RMS, power, energy, harmonics and inter-harmonics to Excel using a simple export tool.
- Transfer setup and data files using a USB stick, SD Card, USB port or Ethernet -- these options provide versatility to meet your needs.



Megger Power Quality

Analysis Software

AUTOMATIC DATA ANALYSIS

- Instant data analysis
- Based on templates
- Create custom templates
- Set narrow band limits
- Set wide band limits

View:

- Frequency analysis
- Voltage analysis
- THD analysis
- Flicker analysis
- Unbalance analysis
- Harmonic analysis
- Zoom in and out

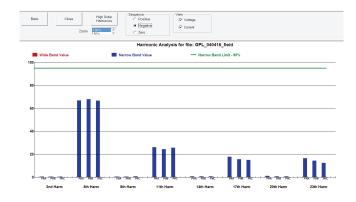


AUTOMATIC HARMONIC ANALYSIS

- Instant harmonic analysis
- Based on templates
- Create custom templates
- Zoom in and out

Analyze:

- Voltage harmonics
- Current harmonics
- Positive sequence
- Negative sequence
- Zero sequence
- High frequency harmonics



ANALYSIS TEMPLATES

Standard templates:

- EN50160 template
- Use IEEE1159 template
- Create custom templates
- Set narrow band limits
- Set wide band limits
- Select multiple parameters
- Upload templates to analyzer

Select:

- Voltage harmonic limits
- Current harmonic limits
- High order limits
- Save templates

Default Configurations Defate Save Load Sele Configuration Configuration	ion
IEEE1159.tplt	Nominal Voltage Nominal Frequency Narrow Limit Wide Limit 120.0 60.00 95.00 96 100.00 9
· ·	Limit Tolerance Negative % 10.00 Positive % 10.00 imit Tolerance Negative % 15.00 Positive % 15.00
Unbalance Narrow Limit Tolerance +/- % 2.00	Flicker THD Narrow Limit Tolerance 1/- % 8.00
Wide Limit Tolerance +/- % 3.00	Wide Limit Tolerance +/- % 10.00
1	Frequency Tolerance 99.5% Negative % 1.00 Positive % 1.00
Harmonic Limits	

Megger Power Quality

Analysis Software

BASIC SETUPS

- Create custom troubleshooting setups
- Select configuration
- Select declared voltage or let the analyzer auto
- Choose the type of problem being investigated from the drop down menu
- Software creates custom configuration to locate problem

DIRECTIONS for Basic PQ Setup Select Options Select Test Duration	Save Select Configuration Select Frequency	Advanced	hase C Delta (@	Wye C Split Phase	
Select Type of Test A description shall be displayed below. Then SAVE the test so it can be loaded into a PQ. For more detailed setups, select "Advanced" button.	Event Configuration Select Declared Voltage Event Limits (Dips, Swells) Select CT Range	< 30 Hz	120 ▼ 10% ▼ 6000 ▼	4 Vini Windowski 2 Vinitation 2 Vinitatio	Xee Xee
Type of Test	EN50160 Flickering Lights		•		
EN50160 standards te	Lighte Dimming and Surging		v		
Frequency	Voltage	THD	Flicker	Unbalance	Harmonics

ADVANCED SETUPS

- Create custom advanced configurations
- Select up to 13 power configurations
- Set desired event triggers
- Set mains signaling -Detection of event plus waveform capture
- Timed intervals
 - Number of cycles

Customize:

- Power and energy settings
- RMS settings
- Storage intervals
- Down to a cycle
- Waveform capture
- Pre and Post Triggers

BMS	m Criteria		Po	wer Wiring Conner	ction							
Wavef	al		4	Wire Wye 3-Wattm	eter				•			
Sched	luled Run		Enable Power Calculations Demand Interval									
			Fixed Interval Length: 00:15:0			00:15:00	-					
		C	C Sliding Storage Rate: Demond Rat									
Ce	liculate	Maximum	F	C Enable FMS Recording Forced Forced FMN FMN FMAX FARS C These C MAX F FARS C Enable EC Untelence Recording coding Time per 100 MS/ke Doys								
	teresis Val		2	▼ Ene	able Su	b-Cycle Event Ce	spture		able Phase Even able RVC Events	15	Rotatio	
	centage of											
				SubCycle Limit	Ratio	CT Full Scale	Nom Ang	le Angle Dev +/-	RVC Thresh (%)	RVC Hysteresis (%)	Fast Transient (Volts)	THD Lim
(Per Label IZ Ua	Channel U1	Dip Limit	Swell Limit	240.0	1.000		Nom Ang 0.00	le Angle Dev +/-	RVC Thresh (%) 3.00	RVC Hysteresis (%) 10.00	Fast Transient (Volts) 339.000	8.000
(Per Label IFUa IFIa	Channel U1 I1	Dip Limit 108.000	Swell Limit	240.0 600.0	1.000 1.000	6000.00	0.00		3.00	10.00	339.000	₩ 8.000
(Per Label I Ua I Ua I Ia I Ub	Channel U1 I1 U2	Dip Limit 108.000 0.00000 108.000 108.000	Swell Limit 132.000 6000.00 132.000	240.0 600.0 240.0	1.000 1.000 1.000	6000.00		2.00				8.000 8.000 8.000
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(Per Label I Ua I Ua I Ia I Ub I Ib I Ib I Uc	Channel U1 I1 U2 I2 U3	Dip Limit 108.000 108.000 108.000 0.00000 108.000 108.000	Swell Limit 132.000 6000.00 132.000 6000.00 132.000 132.000	240.0 600.0 240.0 600.0 240.0	1.000 1.000 1.000 1.000 1.000	6000.00	0.00		3.00	10.00	339.000	 ▼ 8.000 ■ 8.000 ▼ 8.000 ■ 8.000 ■ 8.000 ■ 8.000
(Per Label PUa PUa PUb PUb PUb PUc PIc	Channel U1 I1 U2 I2 U3 I3	Dip Limit 108.000 108.000 108.000 108.000 108.000 0.00000 0.00000 108.000	Swell Limit 132.000 6000.00 132.000 6000.00 132.000 6000.00 6000.00	240.0 600.0 240.0 600.0 240.0 600.0	1.000 1.000 1.000 1.000 1.000 1.000	6000.00	0.00	2.00	3.00 3.00 3.00	10.00 10.00 10.00	□ 339.000 □ 339.000	 ₩ 8.000
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REMOTE CONTROL

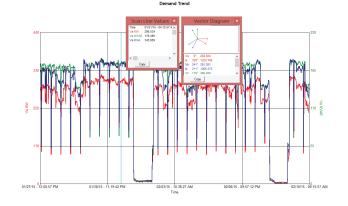
- View remote analyzers in the field
- View RMS data
- View demand data
- View events
- Start and stop recordings
- Upload new configurations
- Download data remotely
- View memory status
- Elapsed record time

Start		Stop	Analyzer: S/N:	MPO-2000 1016E9		dware Version: ware Version:	4.20022
nalyzer Data —							
Date/Time:	03-23-16 00	44:26	Recording Status	Not Recording		Storage Interval:	Complete
Elapsed Time:	0 Days 00:02:30 Data Status: Data Recorded Demand Inter				Demand Interval:	Not Complete	
Active Setup:	Stops Whe	en Full with F	RMS	,		Real Time Freq:	60
0%			100%		_		
Battery: 13.	5 Volts mand Events		Battery OK		Software Versions		Close
Rms Der	nand Events Voltage (V)	Current	Battery OK	ary Voltag			Close
Battery: 13. Rms Der Source Phase A	Nand Events Voltage (V) 115	Current	Battery OK Power (W) Second 10	115			Close
Rms Der	nand Events Voltage (V)	Current	Battery OK				Slose
Battery: 13. Rms Der Source Phase A Phase B	nand Events Voltage (V) 115 116	Current 1 2	Battery OK Power (W) Second 10 20	115 116			Close
Battery: 13. Rms Der Source Phase A Phase B Phase C	nand Events Voltage (V) 115 116 117	Current 1 2 3	Battery OK Power (W) Second 10 20	115 116 117			

CHARTS

- Zoom in and out
- Create scan lines
- View instantaneous values
- Create phasors
- Add notes
- Multiple scaling options
- Select traces

- Set trace colors
- Set line weight
- Export traces to Excel
- Save as images
- Flag events
- View multiple charts simultaneously



RMS - Trend current and voltage -- phase to neutral and phase to phase. Trend AC and DC simultaneously.

Unbalance - Trend both IEC unbalance as well as ANSI unbalance

Power -Trend KW, KVAR, KVA and view phase angles

Energy - Trend KWH, KVARH and KVAH both per phase and total

Power Factor - Displacement Power Factor (DPF) and True Power Factor (TPF)

Harmonics - Trend as a percentage of fundamental or as actual RMS values

Inter-Harmonics - Trend as a percentage of fundamental or as actual RMS values

THD - Trend Total Harmonic Distortion

TDD - Trend Total Demand Distortion

Flicker - Trend both short term flicker (Pst) and long term flicker (Plt)

Waveforms - View waveforms triggered by events as well as time triggered events

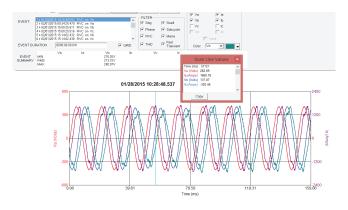
Mains Signaling - View when main signaling activity occurred during the recording

Frequency - Trend voltage frequency

EVENT ANALYSIS DASHBOARD

- Filter events
- View event duration
- View event summary
- View event waveforms
- View harmonics
 - (Through 128th Order)
- Select phase voltages

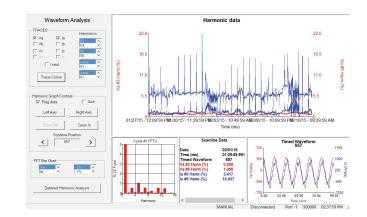
- Select phase currents
- Select trace colors
- Zoom in and out
- Create scan lines
- View instantaneous values
- Export traces to Excel



WAVEFORM ANALYSIS DASHBOARD

- Trend harmonics -selectable harmonic orders
- Select voltage channels
- Select current channels
- Flag data
- View waveforms
- View FFT

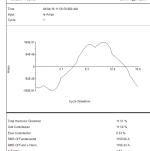
- Analyze harmonics
 - (Through 128th Order)
- Select trace colors
- Zoom in on line charts
- Zoom in on bar chart
- Export traces to Excel

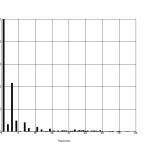


DETAILED HARMONIC ANALYSIS

- View voltage waveforms
- View current waveforms
- Analyze harmonics
- (Through 128th Order)
- Zoom in on bar chart
- Export traces to Excel
- Export as PDF report

- View:
 - K factor
 - Odd & even contribution
 - RMS of fundamental
 - RMS of fund + harmonics

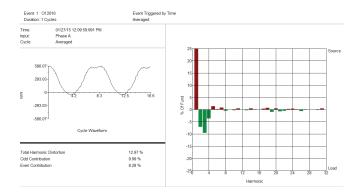




HARMONIC DIRECTION

- View harmonic direction
- Load side harmonics
- Source side harmonics
 - (Through 32nd Order)
- Select phases
- Select waveforms

- Zoom in on bar chart
- Export traces to Excel
- Export as PDF report





REPORTS

RMS Reports - Phase to neutral or phase to phase

Power and Energy - Includes all power factor data

Total Demand - Total power and energy report

Weekly Energy - Energy histogram. View when energy is being used

Out of Limits Reports - Creates a basic Out of Limits report or create a detailed Out of Limits report

Summary Report - Gives summary of recording and shows analyzer settings

Exceedance Reports - Allows you to set limits and view when the RMS or any demand parameter was outside those limits

THD Reports - Trended THD data as well as THD analysis of waveforms

Frequency Report - View detailed frequency data recorded throughout the test

Flicker Reports - Both Short Term (Pst) and Long Term (Plt) reports

Unbalance Report - View negative and zero sequence unbalance and unbalance factors

EN50160 Report - Create a compliance report based on the EN50160 standard

PREFERENCES

- Customize your software
- Select local terminology
- Select labels
- Local default voltages
- Date and time formats
- Create an analysis short cut
- (Allows for one touch analysis)
- Select default reports
- Select default charts

Display	Reports Ch	arts	Display Reports Charts	Display Reports Charts		
Select your preference I the application.	for the following items for i	use in	Select your preference for which reports will be listed for viewing.	Select your preference for which charts will be listed for viewing.		
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all Petrop.	1	-	🔽 Exceedance: U/I Data	Frequency		
ime Format (hours)	12	-	🔽 Exceedance Demand Data	IEC Harmonics (61000-6-30)		
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why is Shortout	EN50160.tplt	-	🔽 Total Demand	I¥ T00		
		_	THD Waveform Analysis	🕞 IEC Flicker (61000-4-15)		
			F Frequency	🖓 Mains Signaling		
			🐼 Short Term Flicker			
			🔽 Long Term Flicker			
			F EC Unbalance			
			🔽 Total Harmonic Distortion			
			P E109160			

SPECIFICATIONS

Compatibility	Windows 7,	8 and 10			
Waveform harmonic analysis		128th Order			
Large data download		100M			
Data import	SD card and USB stick				
Event filters	Filter dip/sags, swells, sub-cycle events, transients				
	THD events,	RVC, phase shift events and			
	mains signali	ing events			
Communications	USB port, Ethernet				
Data transfer	USB port, Ethernet, USB stick and SD card				

ORDERING INFORMATION					
ltem (Qty)	Cat. No.				
Software for MPQ2000	1006-532				
Software for MPQ1000	1009-697				

SALES OFFICE

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MPQSoftware_DS_en_V01

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