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QUICK ANALYZER User Guide Version 6.9

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System requirement

PC: Pentium III 1GHz 2 MB RAM or upper Windows XP (Professional or Home) with Service Pack 3 and .NET 3.5 installed Windows Vista Windows 7 Windows 8 Windows 10



1.0 Generality

Quick Analyzer is a powerful software that allows to connect any PC in an easy and efficient way to all AEP transducers instrumentations with serial or USB channels

Through a simple configuration of channels and effective setting of the characteristics of sensors which instruments are connected, you can check the status of communication, perform tests, saving curves of the obtained graphs, calculate main results of the test and print the certificates.



It is possible to connect up to 16 instruments on the RS232 or USB line.

If the PC is not equipped with serial channels simply add USB adapters with which the programme is totally compatible.

The curves obtained can be viewed either simultaneously in a single graph respect to the time or to another channel , with different colors and set for easier recognition of same, or individually (respect to the time) for easy analysis of detail of the individual sensor

The Zoom button allows an analysis of extreme detail of a portion of a curve.

To activate this feature click on the icon. Acceptance of the function will appear as the mouse cursor becomes a cross instead of an arrow. With your mouse, click on the graph the starting point of the area of interest and, keeping the mouse pressed, drop it in the end point. The area of interest is highlighted by a dashed rectangle. After enabling the zoom function the relevant icon becomes as shown aside.

Clicking once with the mouse on the chart, you can define more and more restricted







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areas.

To return to the original click again on the button zoom

Through an immediate menu you can access to all pages configuration program.

Tests can be stored in a proprietary database and called to be viewed and / or printed at a later time.

The program can be configured to manage the main European languages.

LICENSE AGREEMENT

- 1. We grant the customer a non-exclusive and non transferable right to use
 - Quick Analyzer software on a single computer and at only one place.
- 2 The licence holder is not permitted:
 - to pass on or otherwise make the software or associated material accessible to a) third parties without prior written agreement
 - to modify the software without prior written consent b)
 - to create works derived from software or to duplicate the written material c)
 - to translate or modify it to create works derived from the written material d)
- 3) the right of use is dependent on the customer observance of these general conditions of supply

Acceptance of this license agreement is formally required during the installation of the software.



2.0 Channels Configuration

The configuration page provides access to define the characteristics of each channel separately and independently.

hannel 1 Channel 2 Channel 3 C ✓ Enable	hannel 4 Chanr	el 5 Channel 6 Char	inel 7 Channel 8		Ok IdroScan DataLogger Manageme
Connected Instruments	TA2USB	Resolution	Channel 1	Graph Color Change Color	
Channel Description Initial Full Scale (Kg) Start Test Threshold (Kg) COMM Serial Channel COM15 Acquisition Frequency	Load 100.00 0.00	Full Scale Fixed 38400 V Max V	Automatic	Acceptability line of curve Enable Change Color Level (Kg) 40 Colour TA2USB Configuration	Scan TA2USB on PC Available Serial Ports COM3 COM9 COM15 Update
ime nitial Full Scale 30 Full Scale C Fixed	min	Time Un		iption Int Graph (will be considered for both the X and Y .	
Axis Selection CH 3 : pu	ressione (Kg)		💌 📀 2 Quadra	int Graph (will be considered for both the X and Y ints Graph (will be considered only for Y axis both p ints Graph (will be considered for X and Y axis both	ositive and negative values)

Each channel can be enabled or disabled so that the operator can easily define the configuration of the test.

Some parameters relate to the characteristics of the instrument you want to connect.

- **Connected Instruments** : allows, through a drop-down menu, select the instrument you want to connect. In the case of multi-channel instrumentation (eg. MP4 or TA2USB) will be required to specify the channel you want to connect to.
- Serial Channel : You can specify the serial channel which is connected to the computer. It is possible to verify in the window Available Serial Ports the Com ports installed in your computer. Through the button Update you can check the com port assigned to any removed/inserted serial channel. Check, in the event of doubt, the page of the channels available in the Windows Control Panel. In the case of TAUSB or TA2USB a dedicated button will be enabled for an automatic search of all TAUSB/TA2USB connected to the PC (see note below)
- **Baud Rate**: This parameter defines the communication data rate with the instrument. This parameter must match the one set on the instrument itself. Check inside the manual of the instrument how to check or possibly how to change the Baud Rate of the instrument

Note

Instruments MP2000- MP2-MP4 communicate with Quick Analyzer with address 00 TA5F communicate with address 01



Note: Scan TAUSB / TA2USB connected to the PC



To facilitate the selection of a TAUSB/TA2USB you can create a list of all TAUSB/TA2USB connected to the PC via the button "**Scan TAUSB on PC**" or **Scan TA2USB on PC**



A list of all TAUSB / TA2USB connected to the PC will be shown. For each of them the Serial Number and the serial virtual channel assigned by Windows to the instrument will be indicated.

Select your TAUSB / TA2USB and confirm with OK.

In the case of TAUSB/TA2USB the window on the selection of the baud rate is disabled.

The other configuration parameters instead refer to the characteristics of the sensor and setting conduct of the test.

- **Channel Description** : It is a symbolic name to be assigned to the channel for easy identification of the curve. Usually you set the variable associated with the sensor (load, pressure etc.)
- **Measurement Unit** : it defines the measurement unit of the channel. This is a free text field. No unit conversion is performed.
- **N. of Decimals** : Allows you to select how many decimal digits should be shown for the channel
- Acquisition Frequency: Determine the time interval between 2 acquisitions. For short-term tests is advisable left set with the default setting "Max". For particularly long tests agrees decrease the time of acquisition to avoid creating too large files. If you select "Max" the actual frequency of acquisition will depend on the characteristics of the instrument and on the set Baud Rate.

Acquisition Frequency	Max 💌	
Enable Acquisition at predefined Time		

• As an alternative to the acquisition frequency, for tests that require irregular acquisition intervals is possible to define a table with acquisition times predetermined. By selecting "Enable Acquisition at predefine intervals" the button "Edit Time File" is enabled. This give access to edit the file that contains the acquisition point for the selected channel.

Acquisition Frequency		
Enable Acquisition at predefined Time	Edit Time File	Help

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📗 TabellaTempi_1.dat - I	Blocco note			
le Modifica Formato	Visualizza ?			
,0				
,10				
,20				
,30				
,40				
,57				
-				

The file is a normal text file.

Each row represents an acquisition points. The first field is the sequential point index and the second is the acquisition time in seconds.

Up to 1000 points can be selected this way.

The terminator of the file must be the character @

- **Full Scale : Automatic / Fixed :** Selecting the Automatic Full Scale the axis of the curve will be sized from time to time to the values actually acquired by the instrument starting from the initial value set in the "Initial Full Scale" parameter. By selecting the Fixed Full Scale the axis is defined by the parameter "Initial Scale Fund" and there will be no auto sizing of the curve.
- **Start Test Threshold** : The Start Test Threshold is, in all respects, a trigger level for the test. This threshold can be set individually for each channel. To not activate a trigger level for a channel, please leave it set to the default value of 0. The value of Start Test Threshold can , of course, be both positive and negative
- **Change Color** : Through this button you can change the color of the curve. The active color is currently shown
- **Resolution (only TAUSB and TA2USB)** : Allow to set the TAUSB / TA2USB resolution among 1-2-5-10-20-50-100

It is possible to define a line of acceptability for each channel. In this way a line will be drawn on the graph and it will be easily to define the region where the curve is above a certain value or not. The parameters relevant for this selection are :

- Enable /or disable the function
- Level : where the curve will be drawn
- Color

The end of the test (similar to Start of the test) can be manual through the STOP button or turning on the switch "Stop test when Time is elapsed" after a time define by the field "Initial Full Scale.



Some other parameters allow to define the X full scale axis (Time), the time measurement unit among seconds, minutes and hours and a comprehensive description of the test itself.

For the X axis it is possible to define the kind of Full Scale between Fixed and Automatic while a further selection allows you to define if you want to select the graph in 1 Quadrant, 2 Quadrants or 4 Quadrants. This allow to show both positive and negative values for both X and Y axis.

Time		_		_	Test Description
Initial Full Scale	60	s	Time Unit	_	Prova di Rottura
Full Scale	Fixed	C Automatic	second	-	Test Comments
					commento provino
X Axis Selection	Time			-	C 1 Quadrant Graph (will be considered for both the X and Y axis only positive values)
🔽 Enable Delayed S	tart	10 s			 2 Quadrants Graph (will be considered only for Y axis both positive and negative values)
Stop test when Tin	ne is Elapsed				

It is possible to delay the Start of the test by checking Enable Delayed Start.

When this selection is enabled by pressing START TEST, the acquisition start when the selected time is elapsed.

The time can be expressed in seconds minutes or hours depending on the Time Unit.

In the page **Report Header and Language** you can select whether to display the time as absolute date and time rather than time elapsed.

Time inc	dication in the Export	Data In Excel and on the Graph	C Time as Elapsed Time	☞ Tin	ne as Acqu	iisition Date	e and Time	l
1 1	*Row	AEP transducers		k _	h-	k.	k.	k_
□ 2 ⁻	*Row	Via Bottego 33/A 41100 Cognento (Modena) Italy						

The X axis can be select among time and one of the other enabled channels. This allows to create charts such as the load / displacement typical of many applications.

X Axis Selection	Time	-
	Time	^
	CH 1 : Load (Kg) CH 2 : DEformazione (mm) CH 3 : Load (N) CH 4 : Deformation (mm) CH 5 : X Axis (kg) CH 6 : Y Axis (kN)	=
	CH 7 : Z Axis (ton)	×



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Temperature Reading from JET-IDROSCAN-BIT02-LABDMM-PGE-TPUSB manometers

These pressure gauges have the possibility of providing in addition to the pressure value also measure the temperature. To do this it is necessary to combine two separate channels: one for the pressure reading and one for the temperature reading.

<u>Furthermore it is necessary that the channel intended to pressure readings precedes that for the temperature reading</u>.

In the example described in the figures below for example has been dedicated to the channel pressure gauge JET channel 1 and channel 2 was devoted to the reading of the temperature.

Channel 1 Channel 2 C	Channel 3 Channel 4 Channel 5	5 Channel 6 Ch	annel 7 Channel 8 Cł
🔽 Enable			
Connected Instrument	JET	▼ Channel	Pressure 💌
N. of Decimals	######.##		
Measurement Unit	bar		
Channel Description	Pressione		

annel 1 Channel 2 (Channel 3 Channel 4 Channel 9	5 Channel 6 Cha	annel 7 Channel 8
🔽 Enable			
Connected Instrument	JET	▼ Channel	Temperature 💌
N. of Decimals	#######.#		
Measurement Unit	°C		
Channel Description	Temperatura		

Quick Analyzer recognizes that the data of temperature and pressure coming from the same gauge that will be assigned the same COMM port to both channels

СОММ	
Serial Channel COM8 💌 Baud Rat	e 9600 💌
Acquisition Frequency	Max



Sum Channel

It is possible to define one or more channels as the sum of other channels enabled. In the Connected Instruments window select "Canale Somma". The Serial Communication window will disappear and will appear the selection of channels to be added windows.

From the application point of view the Sum Channel will operate as the other channels. In the main window will have a dedicated analytical window and during the test will be performed its test curve.

🗹 Enable				Channels to be A	dded.	Graph Color
Connected Instruments	Canale Somma	•		✓Channel 1 ✓Channel 2	^	Change Color
N. of Decimals				✓ Channel 3 ✓ Channel 4		Acceptability line
Measurement Unit	kg			Channel 5		
Channel Description	Totale	- Full Scale-		Channel 7		Level (kg)
Initial Full Scale (kg) Start Test Threshold (kg)	0	 Fixed 	C Automatic	Channel 9		Colour
		L		Channel 11		
				Channel 13		Change Color

Caution

The Quick Analyzer calculates the sum of the selected channels.

These must be enabled and properly configured.

Will not be carried out no checks on the unit or on the type of selected instruments.

The operator will check the consistency of the selected channels.



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2.1 Data Log Management

Some **AEP instruments** have a Datalogger functionality.

Quick Analyzer allows full control of the Datalogger functionality of the instrument and allows to:

- Define the time of acquisition
- Define the duration of the cycle
- Give the Start and / or Stop the Cycle
- Acquire all values and save them to a file
- Display the curve test

These features are extended to all the 16 Quick Analyzer channels and so you can synchronize up to 16 instruments in Datalogger functionality and then create and display a curve with all test values.

To activate this feature, you must select in the Configuration page as a Connected Instrument "Data Logger ".

Graph 1 C Enable	Connected	Instrument	IdroScan Data Logger 💌		Serial Channel	COM9	•	Baud Rate	38400 💌
Channel Desc	ription	Pressure		Measurement Unit	Ь	ar		N. of Decimals	#######

When at least one instrument "Data Logger" is select will appear, at the bottom right of the Configuration page, the button "Set Data Logger".

It is recommend, using this feature, to select high Baud rate of the instrument to (38400 or 115200) to get the data transfer rate higher (check that the instrument is selected with the same Baud Rate)

IdroScan DataLogger Management

Clicking this button you will access to the page "Management Datalogger"

For each selected channel its configuration is displayed and during the storage time you can see the time elapsed for the running cycle

Channel 1 : Torque (bar) Current Setup						DownLoad Data Logger				
Acquisition time	1.0s	Test Time	10 ł	12	min	Temperature Log				
	Data Logging running from : 0002h:14min:25s									

At the end of the test it will be enabled the button "DownLoad Logger" and it is possible to acquire the entire curve of the test and save it in a file with the name you want using the button "Save Acquisitions."

This button is enabled when it is carried out at least a download from an instrument and it is inserted a filename in the dedicated window.



For Idroscan and JET manometers Quick Analyzer can download both the pressure and temperature values. If you download the temperature, a channel of Quick Analyzer should be dedicated to this purpose. To enable this feature, it is required that both channels has been enabled. By definition, the two channels must be consecutive (es: channel 1 and 2 or 3 and 4). The first channel will be assigned to pressure the next to the temperature.

The curve created is effectively managed by Quick Analyzer as a test performed and it is therefore possible

- Display
- Print a report
- Export to Microsoft Excel

Through the "Stop Current Data Logging" button you can stop the cycle simultaneously on all 16 channels regardless of the settings stored in the end of the test every instrument

Stop Current Data Logging	

If there is no active Datalogging on any instrument, it is enabled the button "Start Data Logging." Based on the test settings a new test will be activated, in a synchronized way and on any instrument,

New Test setup			
Acquisition time	1s	•	Start Data Logging
Test Time	10 h () min	
Temperature Log		E Co	ontinue Last Recording

The Test Parameters are :

- Acquisition time : is the time between two acquisition point.
- **Test Time** : determines the test duration.
- **Temperature Log** : (only for Idroscan and JET) allow to enable the temperature during the data logging.
- **Continue Last Recording** : (only for Idroscan and STAR) allows to make partial recording (up to 5 for Idroscan and 20 for STAR) inside the Datalogger(of course in the same parameters conditions).

In case of partial recording during the download of the datalogger will be created a single file with all the recording data and a single file for each partial recording.



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2.2 Point to Point curve analysis of a channel





You can also directly click with the mouse on the point on the curve to position the cursor quickly.

The zoom feature is not activated when you are in the function analysis point to point so if you wanted to analyze the curve to a defined portion of the test you must first select it with the zoom function and then activate the analysis point to point.

To close the analysis function point to point, click on the button





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3.0 Test Results

It is possible to define some of the main results of the test. These can be set in the "Required Results" page.

Bread number 1 C af fep part [2000 s P Captue Trenduces value regard Time C af Mar Value point C af Mar Value po	Required Results			
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C at Min Value point Value poi	Capture Transducers value regard	Time	 C at Max Value point 	
			○ at Min Value point	
	Time in which	CH1 · Load	✓ has been > of 0 kg	✓ Evaluation of the test through a comment before the certificate is printed
✓ Capture Max Transducers Value	Capture Max Transducers Value			
Capture Min Transducers Value Ok				Ök

It is possible to define one or more points (up to 20) on the curve through the "Capture Transducers values regard" parameter specifying the variable and its associated value.

Quick Analyzer will calculate the values of the other variables at that point. Obviously, it will be considered the first occurrence of variable at that point

It is possible also to specify, with a variable selected, for how long this has remained far above a given value.

Finally, for each variables is possible to calculate the Max and the Min value during the test.



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At the end of the test by selecting the "Test Results" page is possible to verify the data obtained. The results will be recalculated each time you enter in this page. So you can change the settings required to have results automatically updated.

	Load	Pressure	Deformation	X Axis	Y Axis	Z Axis	Axis	CH9	CH10	CH11	CH12	CH13	CH14	CH15	CH1
Nm	N	bar	mm	kg	kN	ton	bar	N	N	N	N	N	N	N	N
															<u> </u>
															<u> </u>
e in which Values	h Torque (Nm				[5]										
l orque	Load	Pressure	Deformation	X Axis	Y Axis	Z Axis	Axis	CH9	CH10	CH11	CH12	CH13	CH14	CH15	CH1
Nm	N	bar	mm	kg	kN	ton	bar	N	N	N	N	N	N	N	N
Valuas															
Values		Pressure	Deformation	X Axis	Y Axis	Z Axis	Axis	CH9	CH10	CH11	CH12	CH13	CH14	CH15	CH1
Values Forque	Load			kg	kN	ton	bar	N	N	N	N	N	N	N	N
	Load N	bar	mm	ĸy	N.I.										
orque		bar	mm	ку	N.										



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4.0 Export to Microsoft Excel

It is possible to export curves test in Microsoft Excel for an analysis curves more detailed. Since the program use physically Microsoft Excel during the export job it is necessary to have the program installed on your PC to obtain this feature.

On the other hand it is possible to export data in Excel using a CSV file. This method does not require the Microsoft program to be installed on the computer

The name of the file created will be prompted before to export data.

The format in which the data is exported is represented in the figure below

	A1	•	0	<i>f</i> ∗ Date	: 12-02-200
	А	В	С	D	E
1	Date : 12-	2-2007			
2	Hour : 11:	56:00			
3	t(s)	Load(kg/c	Load(kN)	Torque(N	Load(kg)
4	0.032	5001	-117.4	-16	-1
5	0.125	5001	-117.4	-16	-1
6	0.219	5001	-117.4	-16	-1
7	0.313	5001	-117.4	-16	-1
8	0.407	5001	-117.4	-16	-1
9	0.5	5001	-117.4	-16	-1
10	0.61	5001	-117.4	-16	-1

The first two columns are the Date and time of the test.

The third line is a description of the columns.

The first column always is the time in the format selected in the configuration page. The other columns are the values captured at the measuring point.

Since it is possible that the channels can

have a different number of acquisitions and

at different time is taken as a time base the

channel with the lowest number of points.

All export values are relative to the

acquisition time for this channel.

To do a proper export to Excel, you must have set in the settings of the Windows the character '.' as decimal separator.

To do this you must go to the Windows Control Panel, select International Settings and set the character '.' as decimal separator.

1	Date : 12-02-2007					
2	Hour : 11:56:00					
3	Date : - Hour :	Load(kg/c	Load(kN)	Torque(N	Load(kg)	Т
4	Date : 12-02-2007 - Hour : 11:56:00	5001	-117.4	-16	-1	
5	Date : 12-02-2007 - Hour : 11:56:00	5001	-117.4	-16	-1	
6	Date : 12-02-2007 - Hour : 11:56:00	5001	-117.4	-16	-1	
7	Date : 12-02-2007 - Hour : 11:56:00	5001	-117.4	-16	-1	
8	Date : 12-02-2007 - Hour : 11:56:00	5001	-117.4	-16	-1	
9	Date : 12-02-2007 - Hour : 11:56:00	5001	-117.4	-16	-1	
10	Date : 12-02-2007 - Hour : 11:56:00	5001	-117.4	-16	-1	
11	Date : 12-02-2007 - Hour : 11:56:00	5001	-117.4	-16	-1	
12	Date : 12-02-2007 - Hour : 11:56:00	5001	-117.4	-16	-1	
13	Date : 12-02-2007 - Hour : 11:56:00	5001	-117.4	-16	-1	
14	Date : 12-02-2007 - Hour : 11:56:01	5001	-117.4	-16	-1	
15	Date : 12-02-2007 - Hour : 11:56:01	5001	-117.4	-16	-1	
16	Date : 12-02-2007 - Hour : 11:56:01	5001	-117.4	-16	-1	
17	Date : 12-02-2007 - Hour : 11:56:01	5001	-117.4	-16	-1	
18	Date : 12-02-2007 - Hour : 11:56:01	5001	-117.4	-16	-1	
19	Date : 12-02-2007 - Hour : 11:56:01	5001	-117.4	-16	-1	

It is possible to obtain the time column with the date and time of each point of acquisition instead of the elapsed time in seconds from the start of the test.

To set this selection go to the page Report Header and Languages and select Time as Date and Time in Excel format selection for time.



5.0 Report

It is possible to go to the printing page of test report through a dedicated button. It is possible to configure what you want to print according to the figure below

Each curve can be printed individually or through a chart total.

Print Graph 1	Print Graph 9	Printer Setup
Print Graph 2	Print Graph 10	
Print Graph 3	Print Graph 11	Report Preview
Print Graph 4	🔽 Print Graph 12	
Print Graph 5	🔽 Print Graph 13	Print Report
Print Graph 6	🔲 Print Graph 14	Quit
Print Graph 7	🔲 Print Graph 15	
Print Graph 8	Print Graph 16	

It is also possible to enable / disable each curve.

The function of Report Preview lets you verify the report before being sent physically Print

The certificate may be registered according to the own company brand and / or by 3 lines of text headers.

Repo	ort Header an	d Languages	
	1 °Row	AEP transducers	
	2 *Row	Via Bottego 33/A	
	3 *Row	Cognento, Modena	
₹		- transduce	www.aep.it

To add a new brand just copy it in the "Loghi" folder (inside the installation folder in the program) the relative file. This must be in a bitmap format (max dimension 1500x500 point).

To select it just select it as the active brand on the page "Report Header and Languages"