



Introduction Instruments are an important element for any industry or testing labs, which could be addressing various types of source and measurement. These instruments have evolved from the less accurate, low resolution to the very high accurate and high-resolution instruments. One of the most important improvements is the availability of the communication interface. Conducting tests or data acquisition using any of the instruments, which required local presence has changed to the remote control, and monitoring.

The instrument interface serves as a means of communication between the personal computer (PC) and the instrument. The instrument interface could be used to either monitor or control the parameters and data.

Instruments can measure analog and digital inputs, and also generate analog or digital output, driving relays or creating waveforms. The concept is not limited to test & measurement, but also extends to data acquisition and control.

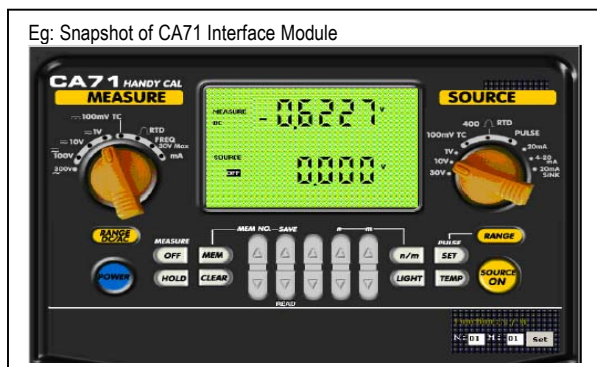
Connect Plus The Software allows you to automate the calibration process, by integrating the instrument with a PC through RS-232/GPIB or TCP/IP interface. It also has the ability to generate custom calibration procedures, analyze and archive calibration results and print custom reports and certificates. Its powerful inventory management capabilities maintain calibration records and help to schedule instruments calibration.

Significant Advantages

- Reduces the time taken in calibrating multiple instruments as against operating the instrument manually.
- Just a click on the buttons provide the settings or the changing of state of the instrument and the reflection of the same on the software.
- All the operations performed by the instrument shall be captured and are available remotely.
- The software offers the real time viewing of the measured readings

Connect Plus Module

Basic interface - The interface module is the actual snapshot of the instrument and has all the features and operations similar to the manual operation of the instrument.



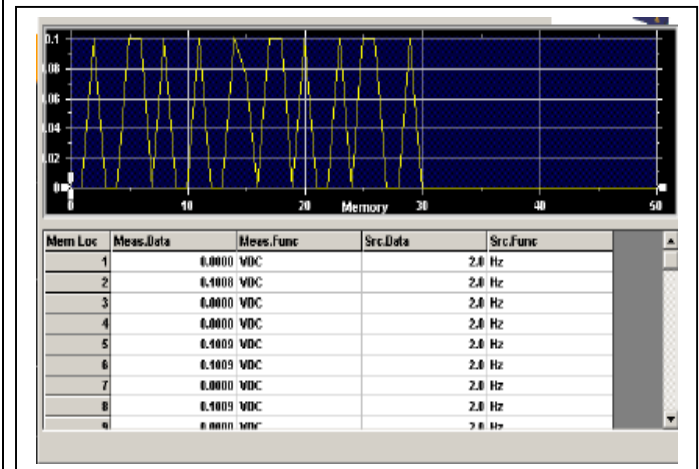
Eg: Snapshot of CA71 Interface Module

Calibration module has two other linked modules, configuration and reporting. Configuration is the storage of device under test details. The calibration has the facility for automatic, semi automatic or manual mode of operation and facilitate for 5 to 10 point of calibration.

CALIBRATION TEST								DC Voltage 0.1 to 30 V	
Incr Src	Incr Std	Incr Meas	Incr Dev	Decc Src	Decc Std	Decc Meas	Decc Dev		
V	V	V	%	V	V	V	%		
0.1	1			0.1	1				
7.575	75.75			7.575	75.75				
15.05	150.5			15.05	150.5				
22.525	225.25			22.525	225.25				
30	300			30	300				

Monitoring and storage - The continuous monitoring of the data from the instrument at user specified scan and span duration. The scan time is the interval at which each reading has to be acquired from the instrument and the span is the duration for which the reading has to be acquired. The monitoring module is a complete data acquisition and display.

Trending - Facility to plot realtime and historical data acquired from the instrument.



Eg: Calibration Report sample

AccessAutomationPvtLtd									
Bangalore									
REQD NO	1	ROOM TEMP / HUMIDITY	25.00C / 70%						
EQP NUMBER	1001								
EQUIPMENT NAME	401	METER INSTRUMENTS USED							
EQUIPMENT MODEL	401	Model	Accuracy	Make					
MAKE	401	SR DATE	0.02 V	1000000					
MODEL NUMBER	401	Procedure							
ACCURACY	1%	Model	Accuracy	Make					
CALIBRATION DATE	10/02/2003	SR DATE	0.02 V	1000000					
CALIBRATION EXPIRE DATE	10/02/2005								
CALIBRATION DATA									
INPUT	OUTPUT	INCREMENT			INPUT	OUTPUT	INCREMENT		
Proc	Source	Standard	Meas. value	Error	Source	Standard	Meas. value	Error	Clear
Working Range: DC Voltage 0.1 to 30 V									
%	V	V	V	%					
50	0.05	0.05	0.05	0.00					
25.0	7.50	7.50	7.50	0.00					
50.0	15.00	15.00	15.00	0.00					
75.0	22.50	22.50	22.50	0.00					
100.0	30.00	30.00	30.00	0.00					
STATUS: OK									
REMARKS: OK									



CONNECT PLUS

Reporting - Connect plus has the provision for generating the following reports in both data and graphical format:

- Calibration Report
- Calibration History Report
- Data acquisition report

Salient Features

Automated Calibration: Connect plus guides the calibration process through the configured test procedure and performs the necessary calculations automatically.

System Expansion: Instruments supported with communication interface can be connected to the software to perform automated closed loop calibration.

Customize your calibration certificates and reports Connect Plus Software comes with a built-in report generator that allows to design calibration certificates and test reports.

Calibration results are uniquely attached to the instrument's inventory record, together with all the information required by stringent quality standards such as ISO 9000 to ensure bi-directional traceability.

Instrument Libraries for Connect Plus Connect plus has evolved to a database of instrument libraries which can be used as a plug and play option with the software. Few of the instruments supported are listed below:



Handy Calibrator

Handy Calibrator



Digital Power meter

AC Current Voltage Standard



Data Acquisition units



System Requirements

Hardware	Software
Pentium III processor or better 256 MB of RAM 100 MB of available hard drive space Communication interface cards	Windows 2000/XP/ 9X

Ordering Information

CP - 9001 - 001	Interface Module for the instrument
CP - 9001 - 002	Interface Module for the instrument Calibration Module with database connectivity Calibration Test Reports

Related Products

eCal – The Calibration Management System for refineries and manufacturing industry finds its application in calibration of Pneumatic, Electrical and Temperature equipments

Other Products

SATMON – Satellite channel monitoring system, useful for satellite service providers to monitor the strength of various satellite channels. Automation of Testing of RF Component using Programmable Network Analyzer

MPTS - - is a full-fledged fast and accurate package to perform Measurements on RF Components used in Filters, Power Combiners, Low Noise amplifiers, antennas

Tsharp – Training Management System for monitoring or tracking training activities of each employee of the organization with automatic reminder facility

Skillview - is a customizable online test administration and assessment software framework adaptable to areas like educational institutes, recruitment industry and other industry verticals

About us Access Automation Pvt. Ltd., headquartered in Bangalore, India is involved in the business of providing high quality solutions to industry verticals: energy, healthcare, manufacturing and education. Our highly qualified and experienced team of professionals has a mission of bringing in automation to your business. Through state-of-the-art technology and development methodology, we have introduced frameworks and solutions for the automation market.

Our area of expertise include Test and Measuring Instrumentation, Man-Machine Interface, Calibration Work Bench, PC based Instrumentation, Automation of information flow from plant floor to management, Functional Test Solutions, Data Acquisition Systems and Web based Solutions.