

# Controller Configuration/Data Logging Software

## Custom Software from CAL Controls

Designed for use on laptops or PCs, the CALComms™ communications option offers you the time-saving benefit and convenience of remotely configuring and adjusting units, saving and retrieving settings to and from files, and cloning settings to other instruments. And, it adds the advantage of a highly flexible logging and real-time charting capability for providing hard copy quality assurance records for ISO 9000 and other management purposes.

CALComms bridges the gap between the stand-alone system and the full SCADA of fieldbus control networks. It provides remote supervision of up to 32 instruments using Modbus® protocol for controlling plant and processes.

## Logging and Charting

Up to 12 instrument readings can be charted and shown live on the screen in real time. The chart recorder has many tools available to enable the charts to be suitably configured, displayed, and printed.

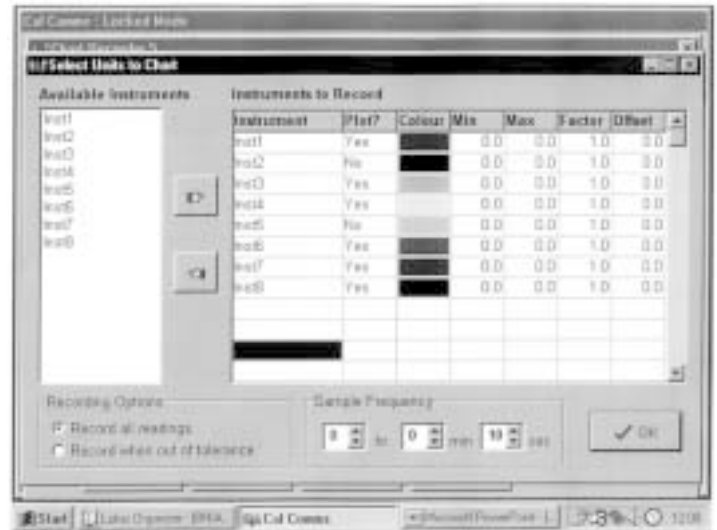
Up to 32 instruments can be logged on a single RS485 link. Log files can be printed in tabulated form as text files, or exported into spreadsheets for quality assurance or management reports. The Log-on-Change is useful for limiting the size of log files by ignoring any readings within acceptable limits.

## Hardware Requirements

CALComms runs best on Pentium PCs running 32-bit Windows® operating systems (Win95, 98, or NT). A minimum of 16 Mb RAM is recommended, with 20 Mb free hard disk space, to allow ample space for logging files.

## Model Selection Guide

Description	Catalog Number	Price
CALComms™ Software and Manual	100 1GB 300	\$159.00
Communication Module PCB RS232	3C0 000 200	50.00
Communication Module PCB RS485	3C0 000 400	50.00
Belden Cable (9841) for RS485 Communications	430 300 0C4	1.08/ft
Belden Cable (9501) for RS232 Communications	430 300 0C2	0.33/ft
RS485 to RS232 Converter with ADE	3C2 400 000	320.00



CALComms™ lets you view data from up to 12 instruments at once — in real time!



Clear, easy-to-understand screen graphics make configuration quick and easy.



Copying settings from one instrument to another or others significantly speeds up instrument configuration for multi-zone applications.



Adjust instrument and chart screens for the best possible view of network activity.

# Software and Connectivity

Using CAL controllers, there's a wide range of software support products designed to suit different applications.

Software	CALCOMMS	CALopc	CALpoll
Description	Easy-to-use and install software application requiring no design work.	Software driver for OPC client/server applications, such as SCADA.	Example demo program and source code to help you build a custom application.
Ideal for	Chart recorders, dataloggers, and alarms.	Large SCADA applications requiring many inputs other than CAL.	Custom software applications dedicated to one application.
For Use by	Plant/process engineers, supervisors, quality control, and system/machine designers.	Process engineers, plant managers, and SCADA system builders.	Software engineers with Visual C++ experience.
Typical Applications	Quality control, process optimization, and lab equipment.	Process control and manufacturing.	OEM machines and development projects.
Flexibility/Versatility	Connect only to CAL.	Connect to other hardware.	—
Other Comments	Designed for simplicity, with many features.	Requires SCADA software.	Use with Visual C++ Compiler.
License Cost	P/N: 1001GB300 \$150.00	P/N: 1001GB500 \$490.00	FREE, over the web.
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## CALopc — OPC Server



- Unlimited soft tags (memory dependent), multiple arithmetic and logical operations, with the ability to browse tags
- Configurable timeout OPC, OLE (Object Linking and Embedding) for Process Control, is an interface standard that allows process control and factory automation equipment and software from different manufacturers to communicate with each other — without the need to custom-write a lot of expensive computer code.

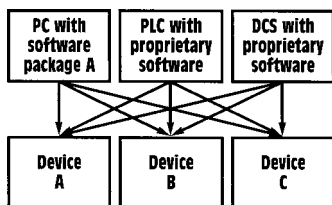
OPC lets you pick a controller for its functionality, quality, and price, instead of its likelihood to connect to your SCADA system. Connecting a controller to your network is quick and easy, so you cut down the costs and time to implement automation systems. Upgrades and maintenance are simple, letting your system change as your needs change.

CALopc connects to your plant network using the Modbus RTU protocol over an RS232 or RS485 connection. It lets you connect up to 128 CAL controllers per COM port, supports multiple COM ports, and provides COM port statistics. You'll get soft tags with multiple arithmetic and logical operations, and the ability to browse tags, limited only by your computer's memory capacity.

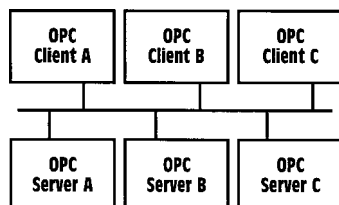
CALopc comes with preconfigured templates for CAL controller models 3300, 9300, 9400, and 9500. It also gives you the ability to create custom templates for your CAL controllers, using the CAL controllers bitmap images and CAL 7-segment LED TrueType font. Using an OPC client that doesn't automatically register servers? Don't worry. CALopc comes with a proxy server batch file to help you out.

Does this sound like something you might use? Just ask for CALopc with your next CAL controller purchase, or call us for more information.

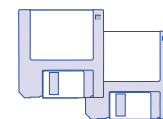
### Connectivity before OPC



### Connectivity with OPC



## CALpoll — Tools for Custom Software Engineers



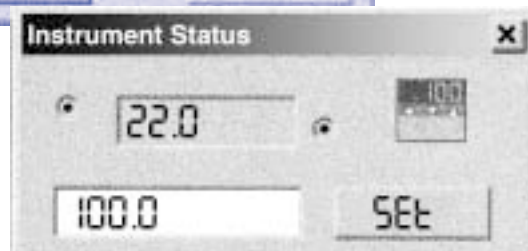
CALpoll is a free software program available at [www.cal-controls.com](http://www.cal-controls.com). It includes an example program and source code in Visual C++. It's ideal software engineers who want to create custom applications that need to communicate with CAL controllers via the Modbus RTU protocol.

The source code includes routines for communicating via Modbus, saving the software engineer significant development time. The example program also doubles as an ideal diagnostic tool for proving that the communications hardware is set up correctly. Only the communications port needs to be set up, and CALpoll will detect all instruments on the line.

CALpoll prompts you to set up the communications (baud rate, com1/com2, and parity). CALpoll will then poll the Modbus network and display all devices and their addresses. It also lets you set and download a new setpoint remotely.



**Available Free at**  
[www.cal-controls.com](http://www.cal-controls.com)



Controllers and Programmers  
Digital Indicators  
Recorders and Data Acquisition  
Temperature Sensors & Transmitters  
Analytical Systems  
Transmitters