



*Think Automation and beyond...*



**The New MicroSmart FC6A**

# Power, Performance, and Connectivity

# The MicroSmart FC6A

## MicroSmart FC6A provides PAC capabilities with ease of programming

IDEC's new FC6A MicroSmart PLC provides the power of a PAC in a small form factor, making it an ideal fit for your most demanding applications.

640KB of program memory handles your toughest control applications, and programming is quick and easy with IDEC WindLDR software. Remote access is also a snap! Create custom web pages configured for remote monitoring and control using simple drag-and-drop functionality with no HTML programming required, a feature unique in this class of PLCs.

FC6A MicroSmart PLCs provide competitive advantages with simplified programming and web page creation, more cost-effective end solutions for your customers, and ease of maintenance via remote access—a set of features unmatched by any other micro PLC.



800.262.4332

<http://FC6A.IDEC.com>

### HMI Module



### Base Module



### Expansion Modules



For a complete overview of all the features and functions in the new FC6A, visit our website at: <http://FC6A.IDEC.com>



# Adaptive Design



**RJ45 Ethernet Port** Supports the Modbus TCP protocol, and Internet connections for remote monitoring and control



**Analog Cartridges** Plug-in cartridges each have two analog I/O points, either inputs or outputs



**SD Memory** SD card for data logging, program storage/transfer, firmware updating or recipe storage



**USB Port** Can be used to provide power and transfer software programs from a PC to the CPU, and can also be used for PC-based monitoring of the CPU



**Serial Port Communication Cartridge** Add one to the 16 and 24 I/O models, and two to the 40 I/O model



**Removable Terminal Blocks** Simplifies wiring, installation and module replacement—just wire the terminal block plugged into a module



**RJ45 RS232C/RS485 Serial Port** User selectable for RS232C or RS485, supports Modbus RTU and User protocols



**Replaceable Battery** Low battery level warning provided at CPU via an LED, and remotely to trigger an HMI alarm or send an email alert



**Expansion Modules** Up to 15 can be added, with no restrictions as to the number of analog and specialty modules



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16x



## Fast Execution

MicroSmart FC6A execution time is comparable to a PAC controller. It's 16 times faster than FC5A MicroSmart Pentra.

## Expanded Memory

Program memory is 640 KB (80,000 steps) with 1,024 timers and 512 counters, and six high-speed I/O at rates up to 100kHz. Double the capacity of a typical micro PLC, it allows handling of large programs with complex control requirements such as PID, flow totalization and recipes.

## High-speed Outputs

Allows implementation of PAC-like features including:  
ARAMP — Ramp pulse output with table  
JOG — Jog control  
ABS — Initialize Absolute Counter

## Upgradable Firmware

Firmware is upgradable for all CPU and expansion modules through WindLDR software or SD memory.

6x



## Fast I/O Refresh

Expansion I/O refresh is 6 times faster than FC5A MicroSmart Pentra, resulting in more efficient and faster machines.

## Up to 520 Discrete and Analog I/O

Maximum of 126 analog I/O, much more than a typical micro PLC, and approaching PAC capacity

## Time-Base Applications

Use built-in real time clock or obtain time from SNTP server

## Web Server and Email

Remote access using web browser and email/text message can be configured using add-on HMI Module.



Download the FC6A datasheet for more features and specifications at: <http://FC6A.IDEC.com>

# Web Page Creation

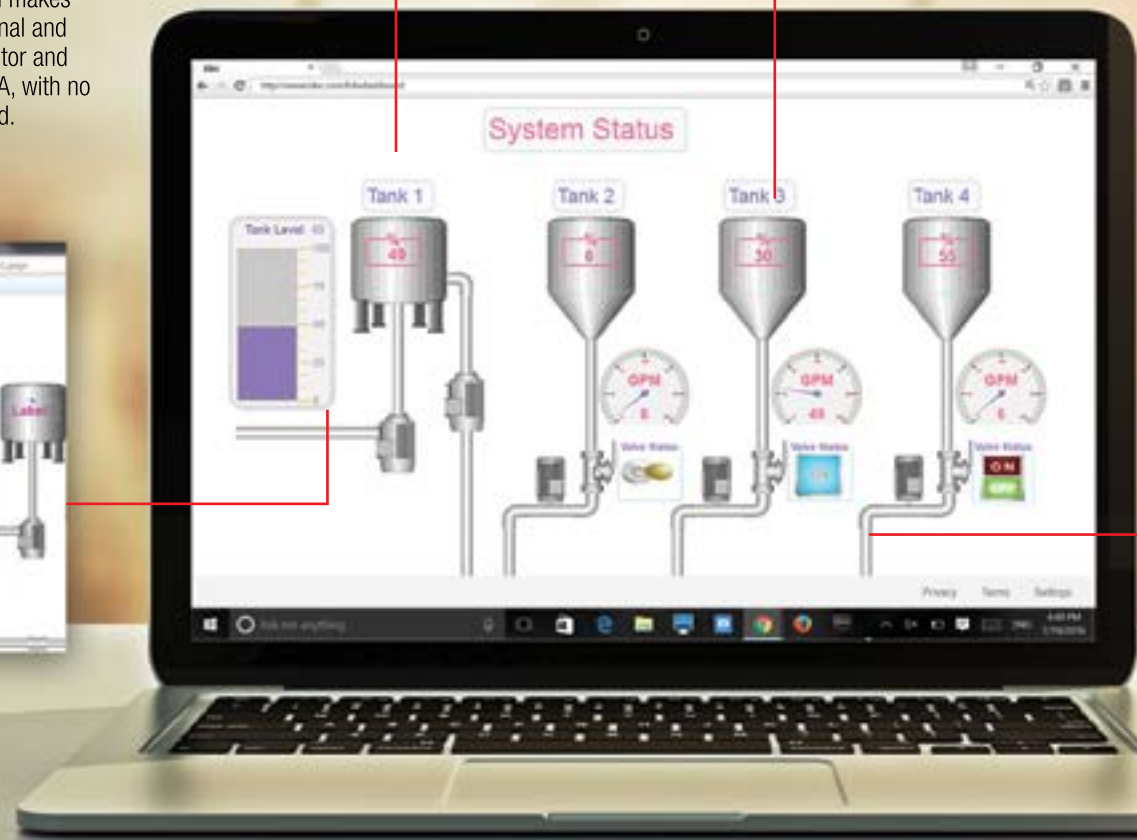
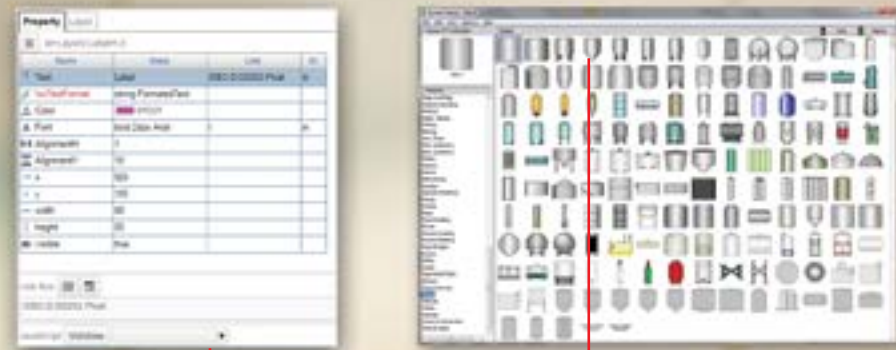


## WindLDR Software

This icon-driven programming tool combines logic and intuition with an incredibly easy-to-use interface. Not only is WindLDR intuitive, it also has an extensive and powerful instruction set.

## No HTML Programming Required

WindLDR 8.2 or later version has a new Web Page Editor, which makes it simple to create professional and dynamic web pages to monitor and control the MicroSmart FC6A, with no HTML programming required.



## Drag-and-Drop Simplicity

It doesn't get any easier than this! Texts, objects, images, data displays, data input and other information can be placed anywhere on the web page using drag-and-drop commands.

## Over 7,000 Images Available

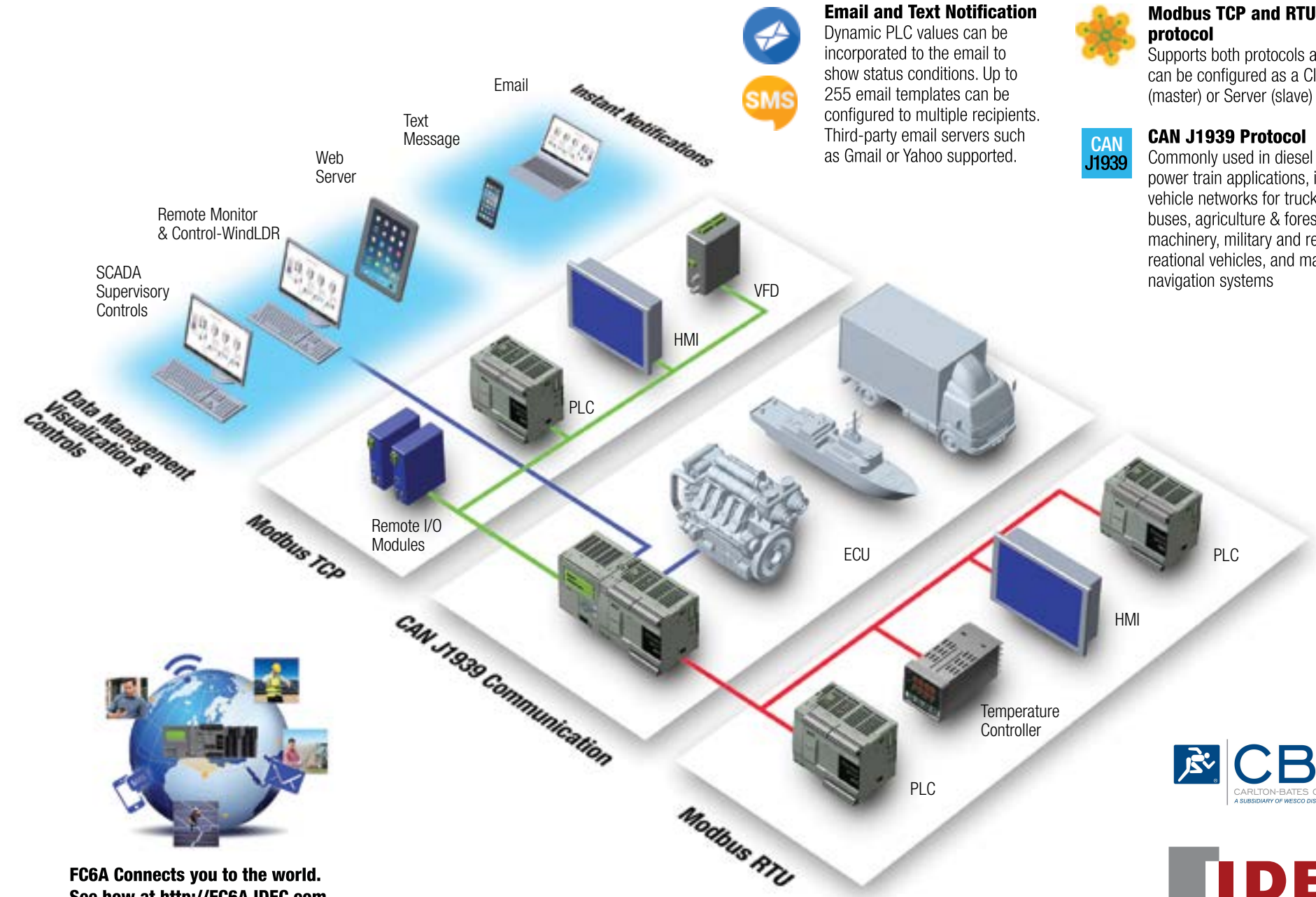
With over 7,000 pre-built images, the same ones used in IDEC's powerful WindO/I-NV HMI programming software, you can construct a professional web page in minutes.

## Extensive Object Library

Want to create a bar graph, gauge, pie chart, trend chart, pilot light, slider, pushbutton or other object on your web page? Just pick the object, drop it on the screen, and link it to its data source by filling in the blanks. This procedure can be used to display MicroSmart FC6A data on the web page, or to enter data into the MicroSmart FC6A from the web page.



# Multiple Communication Options



**Email and Text Notification**  
Dynamic PLC values can be incorporated to the email to show status conditions. Up to 255 email templates can be configured to multiple recipients. Third-party email servers such as Gmail or Yahoo supported.



**Modbus TCP and RTU protocol**  
Supports both protocols and can be configured as a Client (master) or Server (slave)



**CAN J1939 Protocol**  
Commonly used in diesel power train applications, in vehicle networks for trucks & buses, agriculture & forestry machinery, military and recreational vehicles, and marine navigation systems

FC6A Connects you to the world.  
See how at <http://FC6A.IDEC.com>





*Minimizing complexity of programming and shortening engineering design cycles while providing the performance you require, the new MicroSmart FC6A delivers efficient automation solutions to you and your customers.*

*Go to <http://FC6A.IDEC.com> to find out why we call the new FC6A "The Next Level of Micro PLC!"*



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