



## C-MORE MICRO 6-INCH TFT COLOR GRAPHICS OPERATOR PANEL

\$399

A new 6-inch touch screen panel with full color TFT display has been added to the C-more Micro-Graphic family of industrial HMI panels. The 6-inch panel features a 32K color TFT display with LED backlighting and 320 x 240 resolution. The panel has 5 function keys with LED indicators and supports horizontal or vertical mounting. The TFT panel supports 3.2MB of memory, a USB programming port, enhanced objects and graphics, and Windows fonts. And **the easy-to-use programming software is free!** At \$399, the 6-inch TFT panel is one of the most competitively priced color touch HMI panels in the market. The C-more Micro-Graphic family includes 3-inch touch and non-touch screen panels and 6-inch touch screen panels. The



- 32K color TFT display
- 3.2 MB memory
- 320 x 240 resolution
- Multistate bitmap support
- Portrait or landscape mounting
- Standard Type B USB programming port
- Five function keys with LED indicators
- Updated Bitmap Object, Line Graph, Real Time Graph, Analog Meter
- New Options for Alarm colors
- Optional landscape or portrait-oriented keypad bezels available



6-inch Micro Graphic Panel  
Horizontal and Vertical Bezels

\$99



**C-More Micro-Graphic panels have the following drivers available for connection to AutomationDirect and many other PLCs:**

- AutomationDirect CLICK (Modbus)
- AutomationDirect Productivity3000 (Modbus)
- DirectLOGIC K-sequence, DirectLOGIC DirectNET, DirectLOGIC Modbus (Koyo Addressing)
- Modbus RTU
- Entivity Modbus RTU
- Allen-Bradley DF1 Full Duplex
- Allen-Bradley DF1 Half Duplex
- Allen-Bradley PLC5 DF1
- Allen-Bradley DH485
- Omron Host Link (C200 Adapter, C500),
- Omron FINS serial (CJ1, CS1),
- GE SNPX (90/30, 90/70, VersaMax Micro and Micro 90)
- Mitsubishi Melsec FX
- Mitsubishi Q and QnA
- Siemens PPI

## FUJI ELECTRIC COMPACT MOLDED CASE CIRCUIT BREAKERS

starting at  
**\$166**

BW series MCCBs from Fuji Electric in sizes up to 800A are more compact than any industrial circuit breakers on the market, so control panels take up less space. These industrial thermal-magnetic circuit breakers conform to worldwide standards, including UL / cULus / IEC / CE Marking / JIS / CCC. The three-pole, non-adjustable magnetic trip BW series MCCBs are suitable for feeder and branch circuits and offer standard type and high-interrupting capacities in identically sized housings. The BW125A and BW250A frames are 600V rated. BW400A, BW630A, and BW800A frame sizes are 480V rated.

- Five frame sizes, rated current for 15 to 800A, max 600V
- Standard type or high-interrupting capacities available in identically sized footprints
- Shunt Trip, Undervoltage Release, rotary handles, flexible handles, auxiliary contacts and other accessories available, many field-installable



[www.automationdirect.com/mccb](http://www.automationdirect.com/mccb)

## SOFT STARTERS

Starting at  
**\$145**

Stellar™ SR22 series solid-state soft starters offer a low-cost alternative to motor control and are ideal for applications such as pumps, blowers and conveyors. Stellar soft starters use thyristors for controlled reduced voltage motor starting and stopping, and then switch to internal contacts for efficient running at rated speed. Stellar soft starters provide smoother control resulting in less torque, less shock, and less electrical and mechanical stress. Easily configurable, each unit is equipped with three potentiometers allowing adjustable start and stop times of up to 30 seconds and an adjustable start pedestal voltage ranging from 30 to 100%.

- 5–40A models @ 208–460V
- 24 VDC control voltage
- Easily and separately adjustable motor start and stop times up to 30 seconds
- Adjustable start pedestal voltage from 30 to 100%
- Two-phase control
- Internal bypass contacts for Run
- Two standard-size widths: 45 and 55mm



- Six error/trip indications: AC Supply, Control Supply, Overheated, Bypass Failure, Shear Pin, Overcurrent
- DIN rail mounting
- Two-year warranty

[www.automationdirect.com/soft-starters](http://www.automationdirect.com/soft-starters)

## UNIVERSAL SIGNAL CONDITIONERS

Starting at:  
**\$175**

Universal signal conditioners convert, scale, isolate and transmit signals from a wide variety of process sensors and controller I/O.

- Input types supported include mA, VDC, thermocouple, RTD, linear resistance or potentiometer
- Signals converted to isolated current or voltage outputs; model with two relay outputs also available
- LCD programming/display module sold separately that snaps onto conditioners for configurations and display



[www.automationdirect.com/signal-conditioners](http://www.automationdirect.com/signal-conditioners)

## C-MORE 6-INCH TFT PANELS

Starting at:  
**\$495**

These two new C-more panels offer improved features and lower cost over the previous STN panels.

- Clear TFT 65K color displays
- LED backlight
- Includes one USB A-type and one USB B-type port, serial communication interface
- Base model for \$495; full-featured model for \$695 adds 10/100Base-T Ethernet communications and CompactFlash slot for data logging



[www.automationdirect.com/C-more](http://www.automationdirect.com/C-more)

## PRODUCTIVITY3000 AUTOMATION CONTROLLER

Productivity3000 is a modular, rack-based system of up to 115,000 I/O points with local, expansion and remote I/O bases and a full lineup of discrete, analog and specialty I/O modules. The high-performance CPU has 50Mb memory, fast scan times and industry-leading seven communication ports for \$599.

- High-performance CPU with **50Mb memory**
- **Modular** rack-based footprint with 36 discrete and analog I/O option modules, up to 115K+ I/O
- Unmatched **built-in communications** capabilities, including local and remote I/O ports and networking
- Integrated **drive communications** over Ethernet
- **LCD display** on CPU and Remote Slave for configuration and diagnostics
- Patent-pending **LCD display on ALL analog modules**
- **Hot-swappable I/O**
- **Any module in any slot**, any base
- Optional I/O terminal blocks or easy ZIPLink **pre-wiring**
- Auto set-up and discovery of hardware
- Tag name database programming
- Task management
- Advanced "fill-in-the-blank" instructions



- Seamless database connectivity
- Graphical HTML-based Help file
- Run-time editing
- Project file and user documentation stored in CPU
- USB data logging on the CPU
- Tag database export to C-more HMI

Get the **FREE** programming software (downloadable online) and check out the tools, instruction set and programming environment that help you configure and program a system in no time.

[www.productivity3000.com](http://www.productivity3000.com)

## NITRA PNEUMATICS

Cylinders  
start at  
**\$9.50**

The NITRA Pneumatics A-Series non-repairable stainless steel round body cylinders includes bore sizes from 7/16" to 2" and stroke lengths from 1/2" to 18" to meet a broad range of applications.

- Interchangeable with other brands of round body cylinders
- Available bore sizes: 7/16", 9/16", 3/4", 7/8", 1-1/16", 1-1/4", 1-1/2", 2"
- Single-acting (spring return) and double-acting models
- Nose, pivot and double-end mounting options
- 250 psi operating pressure
- Models with magnetic piston for position indication
- 3-year warranty
- Made in the USA



[www.automationdirect.com/pneumatic-parts](http://www.automationdirect.com/pneumatic-parts)

## LED SENSOR CABLES

Starting at:  
**\$10.75**

Now get sensor quick-disconnect and patch cables with LED indicators. These cables work with 10-36 VDC PNP sensors.

- Quick-disconnect cables in 2m, 5m and 10m cable lengths
- Patch cables with right-angle M12 female plug with LED indication on one end and axial male plug on the other end, in 0.3m, 0.6m, 1m, 2m, 5m, and 10m cable lengths
- LEDs indicate power and presence of signal
- PUR (polyurethane) jacket for oily and direct sunlight applications
- IP67 /IP68 / IP69K, II rated



[www.automationdirect.com/cables](http://www.automationdirect.com/cables)

## 1200 AND 3600 RPM MOTORS

Starting at:  
**\$70.00**

The IronHorse® general purpose AC motor line now includes 3-phase 1200 RPM six-pole and 3600 RPM two-pole models. The existing 1800 RPM motors range from 0.33 to 300 horsepower. These TEFC motors have 5:1 variable torque and 2:1 constant torque ratings and are ideal in applications such as fans, conveyors, pumps and more.

- Six new 56C 3600 RPM rolled steel motors ranging from 0.33 to 2 HP
- 13 new T-frame cast iron motors in 3600 and 1200 RPM models in sizes from 1 to 10 HP.



[www.automationdirect.com/ironhorse-motors](http://www.automationdirect.com/ironhorse-motors)

## CLICK CPUS WITH ANALOG I/O

Starting at:  
**\$129**

The new CLICK CPUs with analog all include three communication ports (two RS232 and one RS485), real time clock and battery backup for internal SRAM. CLICK CPUs are configured with the easy-to-use programming software, available as a free download.

- 4 DC In / 4 DC Out (sinking), 2 analog in, 2 analog out (current / voltage selectable) (\$129)
- 4 DC In / 4 DC Out (sourcing), 2 analog in, 2 analog out (current / voltage selectable) (\$129)
- 4 DC In / 4 Relay Out, 2 analog in, 2 analog out (current / voltage selectable) (\$139)



[www.automationdirect.com/click-plc](http://www.automationdirect.com/click-plc)

## MOTOR MONITOR RELAYS

Starting at  
**\$21.00**

ProSense motor monitoring relays plug into industry-standard 8-pin octal sockets for DIN rail or panel mounting.

- Phase monitoring relays protect against undervoltage or overvoltage faults
- Alternating relays for motor load protection where equalizing the run time of two loads
- Pump seal failure relays monitor shaft seals for submersible pumps for leakage



[www.automationdirect.com/motor-control-relays](http://www.automationdirect.com/motor-control-relays)

## ZIPport JUNCTION BLOCKS

Starting at  
**\$39.00**

ZIPport multi-port junction blocks organize machine wiring, especially useful to consolidate wiring from various sensors.

- 4, 6 and 8-port junction blocks
- Field wireable or five-meter cable models with four and five-pin M12 connectors
- Choice of one or two I/O per port
- Available with or without power and signal LED indicators



[www.automationdirect.com/junction-blocks](http://www.automationdirect.com/junction-blocks)

## ZIPport PANEL INTERFACE BOXES

starting at  
**\$37.00**

ZIPport™ panel interface connectors mount on the outside of electrical control panels:

- Over 30 configurations with single, duplex or GFCI power outlets, as well as a no-power option
- Communications connectors available include D-sub, RJ45, RJ12, USB, Ethernet and A-B Data Highway
- Standard-reset 3A circuit breaker limits power output



[www.automationdirect.com/panel-interface-connectors](http://www.automationdirect.com/panel-interface-connectors)

## UP TO 575V MOTOR CONTACTORS

starting at  
**\$13.75**

FUJI Electric motor contactors are now available in voltages up to 575V.

- SC contactors in ranges of 440-480V and 500-550V at 60Hz
- SC SUPERMAGNET contactors with AC coil voltage ranges of 380-450V and 460-575V at 60Hz
- Odyssey series contactors with voltage ranges of 380-450V and 460-575V at 50/60Hz



[www.automationdirect.com/motor-controls](http://www.automationdirect.com/motor-controls)

## MORE DINNECTORS

starting at  
**\$31.00**  
for 32

New DINnectors include:

- Disconnects for fast circuit disconnection without rewiring; with or without LEDs
- Thermocouple terminal blocks for connection to thermocouple sensors
- Single and double-level plug-in terminal blocks accept EURO plugs
- Supplementary circuit breaker terminal blocks in 1/4 to 10A sizes; sockets with or without LED indicators



[www.automationdirect.com/dinnectors](http://www.automationdirect.com/dinnectors)

## 22MM PLASTIC PILOT DEVICES

starting at  
**\$4.75**

New line of 22mm pilot devices is made with fiberglass reinforced thermoplastic.

- Illuminated and non-illuminated push buttons in six colors with one contact
- Illuminated and non-illuminated selector switches with two or three positions; key-operated versions
- Maintained or momentary joysticks in two- or four-position versions



[www.automationdirect.com/22mm-plastic](http://www.automationdirect.com/22mm-plastic)

## FLEXIBLE CORD

starting at  
**\$19.00**  
50 ft. SEOOW

Multi-conductor flexible service cord for indoor and outdoor applications:

- Type SJEOOW: 300V, 18 to 10 AWG, 2, 3 and 4-conductor, 50 and 250 ft.
- Type SEOOOW: 600V, 18 to 10 AWG, 2, 3 and 4-conductor, 50 and 250 ft.
- Type W: 2000V, 8 AWG, 4-conductor, 10 to 250 ft. lengths
- UL, CSA, RoHS compliant



[www.automationdirect.com/flexible-portable-cord](http://www.automationdirect.com/flexible-portable-cord)

## STRIDE ETHERNET SWITCHES

starting at  
**\$99.00**

STRIDE line now includes metal and Lexan industrial unmanaged Ethernet switches and Media Converter.

- Lexan or aluminum housings
  - Industrial temperature range versions (Lexan): -10 to +60° C
  - Wide temperature range versions (Aluminum): -40 to +85° C



[www.automationdirect.com/ethernet](http://www.automationdirect.com/ethernet)

## Inexpensive PLC training now available online

Interconnecting Automation (ICA), an independent training company that offers regional training and video courses on AutomationDirect products, has launched a subscription-based online training site. Initially focused on PLCs such as the CLICK micro-brick series, the site will continue to expand coverage to topics such as the Productivity3000 controller and C-more HMIs.

Online training is a component of ICA (see link at the top of the Home page). View the complete list of videos in each "library" as well as watch sample videos; when ready to purchase, register and pay for your selected libraries on a monthly basis. Subscription allows unlimited access from a maximum of two PCs anytime during the 30 days; videos can be viewed as many times as needed during the subscription period. Most libraries range from \$29.95 - \$39.95 per month.



Libraries currently include **Introduction to PLC Principles** (for the novice non-user with limited controls knowledge) and **CLICK series PLC Training** (includes Introduction to PLCs library). For more information, to view sample videos or register for a subscription, visit [www.interconnectingautomation.com](http://www.interconnectingautomation.com)

## Productivity3000 videos now available on AutomationTalk

Our video team has added new recorded webinars for Productivity3000 to the AutomationTalk.com site. The latest videos make up a three-part series explaining the basics of the Productivity3000 controller platform. This series introduces the controller and its unique hardware and software features. Go to [www.automationtalk.com](http://www.automationtalk.com) to see the latest.



## Order import feature for Web store saves time

Orders can now be imported into the AutomationDirect Web store through .CSV or .XML formatted files.

Available through our "Quick Order" feature, .CSV (Comma Separated Values) files are a quick way to import part numbers and quantities

into your cart while XML (eXtensible Markup Language) file imports allow you to also specify some or all of the information necessary to complete an order (such as shipping address, contact information, shipping method, and payment information). For a detailed description on how to import order files, visit : [www.automationdirect.com/static/Order\\_Upload.pdf](http://www.automationdirect.com/static/Order_Upload.pdf)

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## Upcoming Webinars

### PLC/PAC PROGRAMMING

**January 13, 2010  
2:00pm EST**

Learn the basics of Directsoft for programming the DirectLogic PLCs, the CLICK PLC's FREE programming software, and the latest Productivity 3000 controller software (FREE for a limited time). This seminar covers all three programming software packages, gives live demos, shows where to get the free versions, and how to get started programming with each.

### DINNECTORS AND ZIPLINKS

**February 3, 2010  
2:00pm EST**

See the latest in our lineup of Terminal Blocks and Pre Wired connection cables and modules. We have added many new products to our Wiring Solutions while cutting costs to benefit our customers. See what we offer as well as products that will be released soon.

### CLICK PLC PROGRAMMING - ADVANCED

**February 24, 2010  
2:00pm EST**

Hone your programming skills using our CLICK PLC programming software. Seminar covers time-saving suggestions and advanced programming techniques, as well as showing programming examples that are common on simple automation controls. There is a question and answer session at the end of the show.

**Sign up at  
[www.AutomationTalk.com](http://www.AutomationTalk.com)**