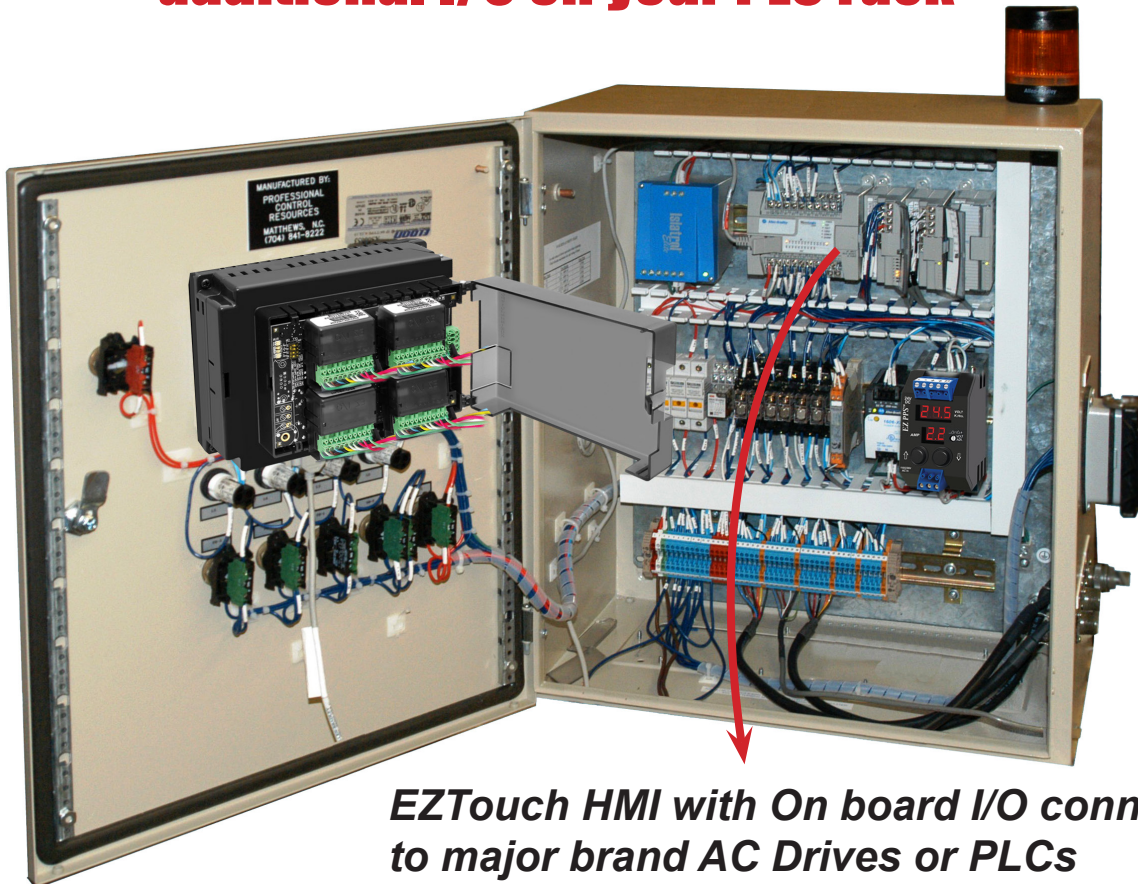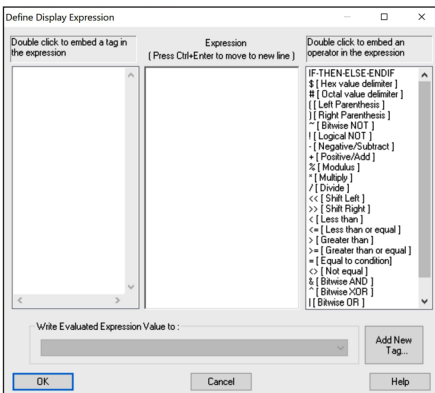# *EZ Touch I/O Flex* ®

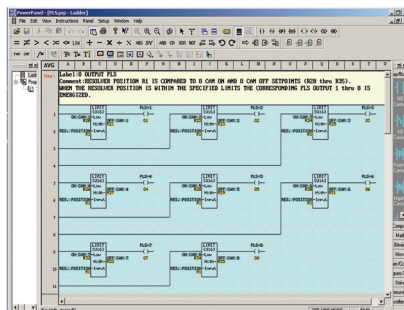# A Smart HMI with Advanced Controls
Great for tight spaces when there is no more room for additional I/O on your PLC rack

EZTouch HMI with On board I/O connects to major brand AC Drives or PLCs

Scripting/Expressions for simple Logic

Advanced PLC Ladder Logic with Mathematical functions for more sophisticated applications

Can act as a stand-alone HMI and PLC controlling your entire Machine or as additional Smart HMI with I/O talking to the current PLC on the Machine

HMI with I/O that talks with existing PLC and AC Drives

Micro/Compact/ Control Logix

Automation Direct Directlogics and Do-More PLCs

Productivity 2000/3000

ABB AC Drives

AB AC Drives

Siemens S7300

EZTouch I/O Flex communicates with known protocols such as:

- *Allen-Bradley Ethernet I/P or DF1 over Ethernet*
- *Automation Direct Do-More, DirectLogics and Productivity Series PLCs over Ethernet*
- *Siemens ISO over TCP/IP*
- *Modbus TCP/IP*

EZ Touch I/O Flex® **Overview**

HMI Features:

- • *Built in Image Library (4000+ Symbols)*
- • *Advanced Alarm Messages & Screens*
- • *Email & Text Message Alerts*
- • *Trending Graphs*
- • *Data logging*
- • *Up to 999 User designed screens*
- • *Unique Online Edit of HMI*
- • *Ethernet Port for Remote Access*
- • *Dual Driver Support to simultaneously interface with Major Brand PLCs (Allen Bradley, Siemens, Mitsubishi, Automation Direct etc.)*

USB Type A
for Data log
and backup

USB Type B
Programming port

Micro SD
for Data Logging

PLC Features:

- • *Flexible I/O (Digital, Analog, High speed counters, Temperature, PWM)*
- • *Auto-tune PID, up to 8 independent loops*
- • *Advanced Math Function Blocks*
- • *Recipe Editing*
- • *Date, Time and Event Based Control*
- • *RS232/422/485 Expansion port (up to 2048 I/O)*
- • *Ethernet Port (Modbus Master for AC Drive or 3rd Party Device)*

Two independent processors for PLC and HMI
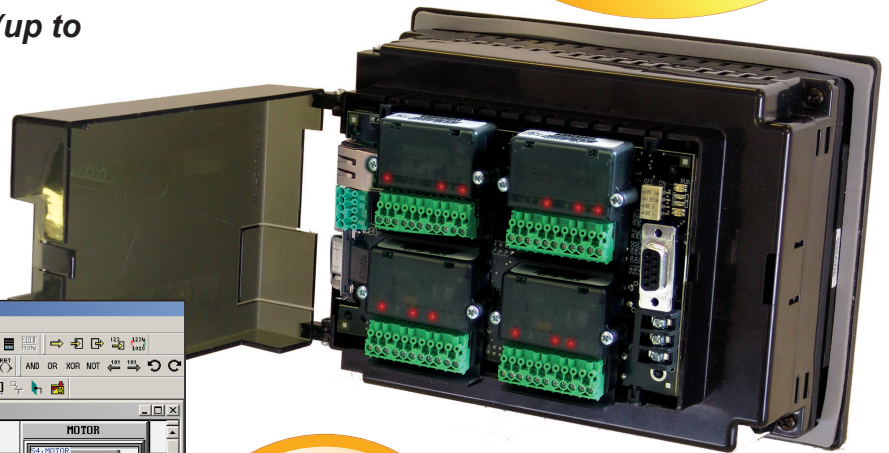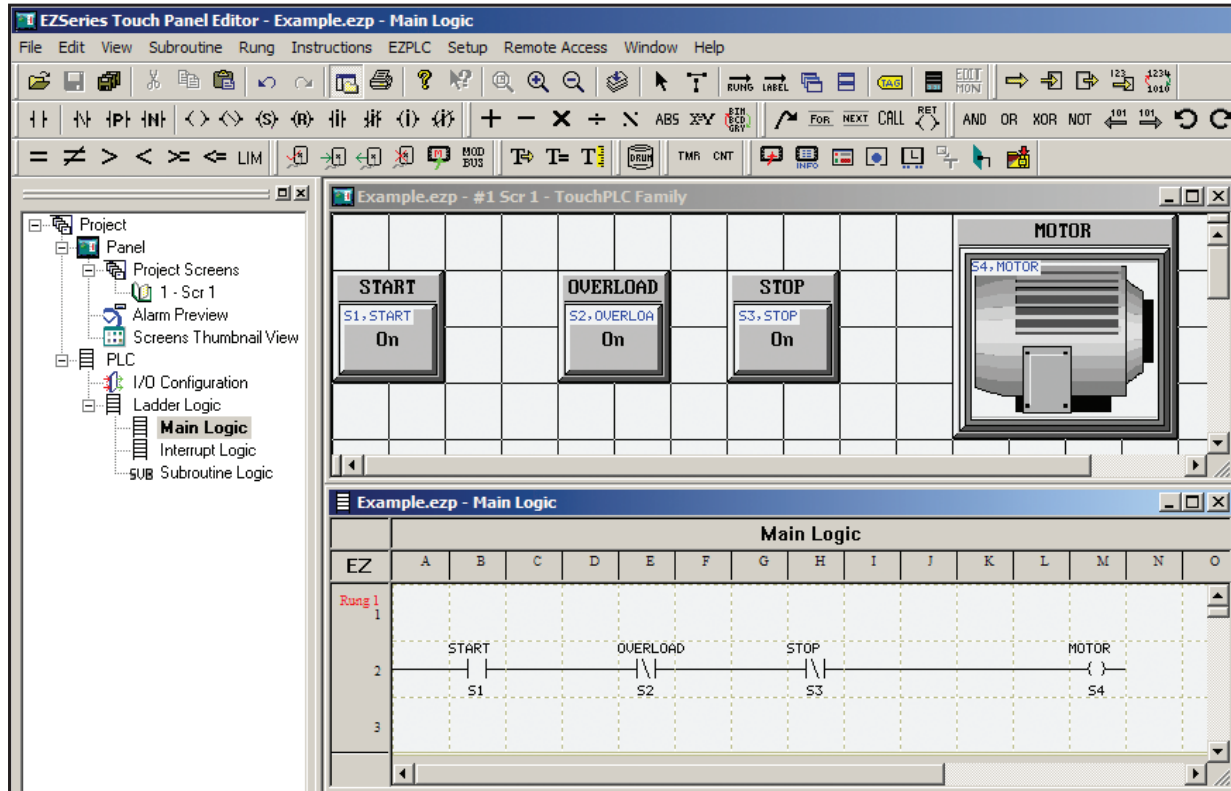
All-in-One Software for HMI Screens & Local Ladder Logic
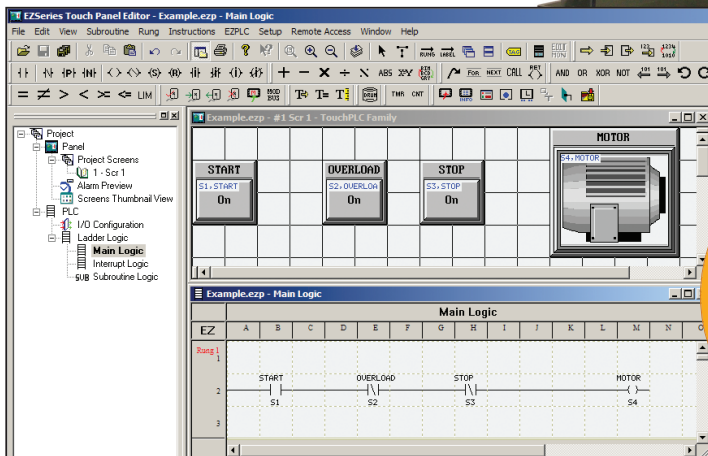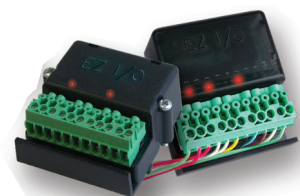
EZTouch I/O

EZ Touch I/O Flex ®

All-in-One Programming Software for Touchpanel Graphics and PLC Ladder Logic!!

The EZTouch I/O Flex can be programmed thru the 9-pin RS232 port or the Ethernet port on the Touchpanel itself. The programming software is also integrated into one package that allows use of the same database for Touchpanel and PLC functionalities. In addition both the Touchpanel objects and corresponding PLC tags and ladder symbols can appear on the same design screen.

- **No more need to export/import PLC tags**
- **As you change tag address in ladder logic the corresponding address to the object automatically changes**
- **Universal Software for all EZTouch, EZTouch I/Os and EZSoftHMI**

- **Advanced Mathematical function blocks**
- **Advanced auto-tuned PID control**
- **On-Screen recipe editing**
- **Unique data-logging features**

EZ Touch I/O Flex ® Top 5 Reasons for using a Smart HMI with PLC I/O

EZTouch I/O Flex is the most powerful standalone HMI + PLC or Smart HMI ith I/O for your existing plant PLCs. It can be used for machine control or as an addition to existing PLC controls communicating over the most common PLC protocols. There are similar products in the market place but none have the flexibility, modularity, connectivity and maintenance features that PLC users have come to rely upon.

1. Save Space
Space in control cabinets can be a limiting factor for many. With the cost of sheet metal rising, the bigger the control cabinet, the more expensive it gets.   Machine builders however are always trying to increase functionality by adding additional features. Hence, by using a All-in-One HMI/PLC unit, one can reduce significant electrical panel space. On average, EZTouch I/O Flex users save over 40% of valuable cabinet space.

2. Save Time
Everyone's time is very valuable. With the EZTouch I/O, programming time is cut in half.   EZTouch I/O Flex users benefit from the use of a single programming editor that allows you to create the screen objects and PLC ladder logic in one software package.   No more need to export your PLC tags and import into HMI! As you make the changes to the PLC tag address, the associated object automatically updates itself!

3. Hassle Free Wiring
With an integrated HMI/PLC combo unit, routing of the I/O has never been so EZ. All Wiring of digital and analog I/O fit neatly on the back of the EZTouch I/O Flex in a clean and compact manner.

4. Save Money
Not only does the EZTouch I/O Flex save money by reducing the cabinet size, it also saves customers lots of money because of its flexibility and modularity of I/O. Instead of buying large PLC bases that cost hundreds to thousands of dollars, you just choose the display size you want and add I/O as and when you require. Furthermore, with EZTouch I/O's dual driver support, you can use your existing PLC in the plant and add I/O straight on the back of the HMI for a fraction of the cost compared to adding I/O to the in-house PLC. For example a 6" TFT Color Touch I/O with 24 I/O built in runs you $599 which is less than the cost of most HMIs by itself!

## 5. Upgrade Auxiliary Controls for Same Price
There are many plants that have a corporate spec for the type of PLCs they can use due to the majority of systems in the plant being one brand from the OEM. However, there are many auxiliary or secondary machines using either simple push buttons, relays and analog meters to keep costs low.   With the introduction of the EZTouch I/O Flex and in particular the EZTouch I/O Jr. one can upgrade the auxiliary machine controls with a very powerful HMI and modular PLC at the same cost of push buttons & relays or proprietary control boards. The EZTouch I/O eliminates the hassle of "C" level programming and provides the user a graphical & flexible alternative. They even interface directly with your main HMI/PLC setup over Ethernet I/P, Modbus TCP/IP, Siemens ISO over TCP/IP, K-Sequence or Productivity Protocols!!!
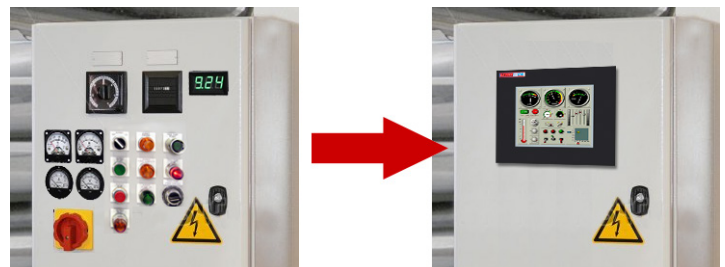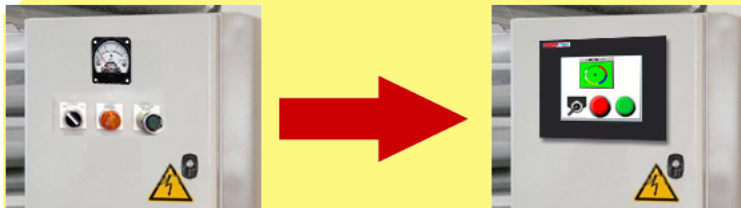
Low Cost HMI & PLC Combo unit Ideal for replacing Push Buttons & Analog Meters or for "Table Top" Machines
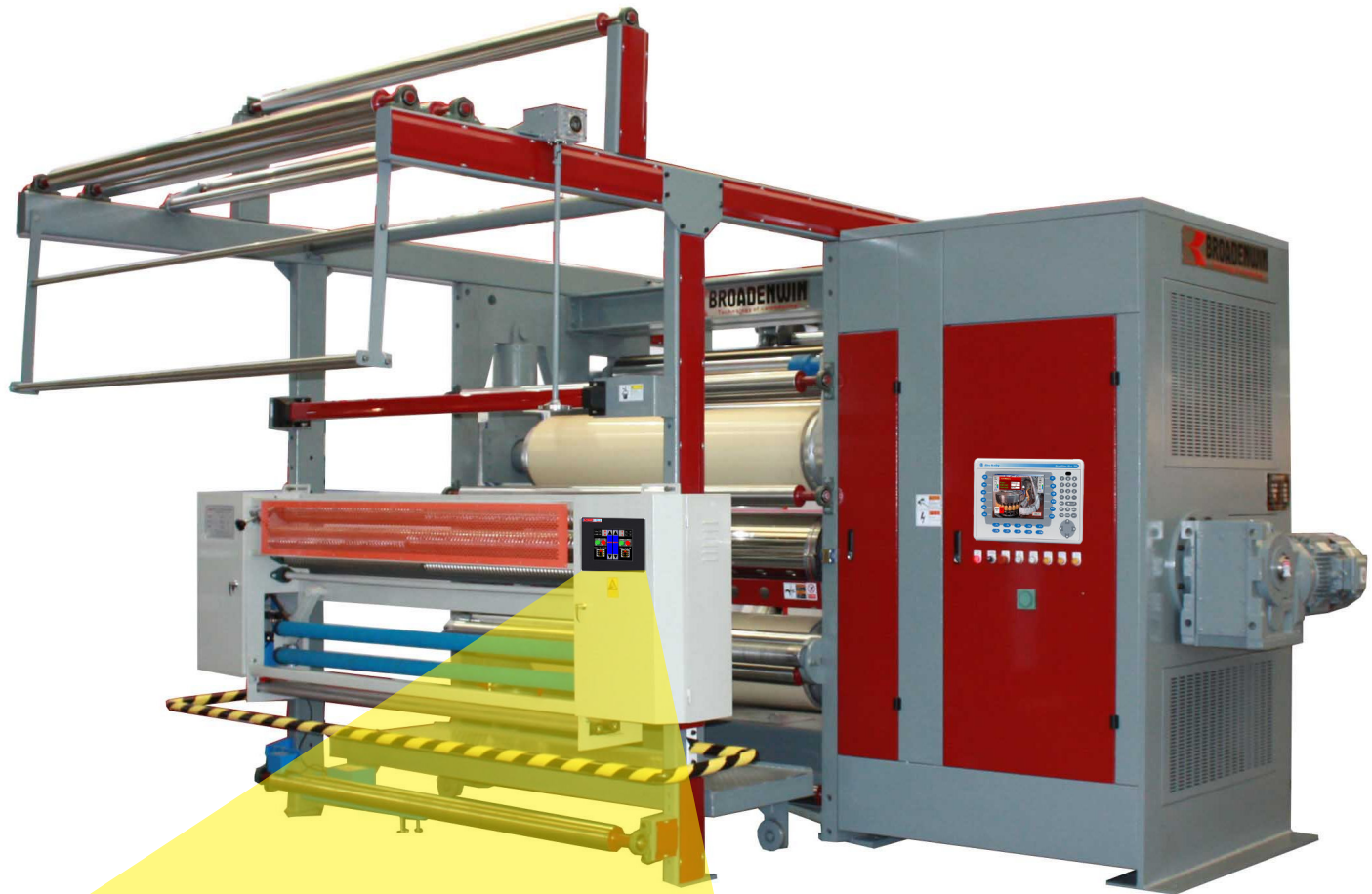
- **Simple Push Button and Analog Meter**
- **No flexibility in design**
- **The more buttons you require the higher the cost**

- **Flexible Graphics and Meters**
- **Up to 999 screens**
- **Built-in Digital and Analog I/O**
- **Fixed Low Cost even if you need to add additional buttons or meters!**

EZTouch I/O will also interface with your main HMI / PLC on the machine or plant over known protocols like Ethernet I/P, Modbus TCP/IP, Siemens ISO, or ADC K-Sequence, Do-More, and Productivity Series.