











Human Machine Interfaces & Integrated PLC

FlexHIO Series integrate operator interface capabilities with the functionality of an integrated programmable logic controller (PLC), all combined in one compact industrial grade unit.

Using standard Ladder programming powerful applications can be developed using our free-of-charge FlexWare configuration software. PLC logic blocks can be executed at power-on, during every scan, upon receiving an interrupt on specific I/O pins or on a timer interrupt. FlexHIO operator interface functionality revolves around screens and tasks that can be freely assigned.

The range of models currently include:

- 16 Characters 2 line alphanumeric (incl. non-removable I/O)
- 3.1" Multicolor LCD Backlight model (incl. non-removable I/O)
- 3.5" TFT touchscreen (up to 3 optional "snap-on" I/O mudules)
- 5.7" TFT touchscreen (up to 5 optional "snap-on" i/O mudules)



5.7" model shown with 5 "snap-on" modules.

"Snap-on" I/O (Digital) modules.

FlexHIO panels can be expanded with I/O using "snap-on" I/O modules. The I/O modules can be selected based on the need of the application. Each I/O modules.can support 2 High Speed inputs of 25KHz. Maximum 5 I/O modules can be "snapped-on" to the 5.7" touchscreen model and 3 modules can be connected to the 3.5" model. The other two models are available with fixed I/O only. Using the "snap-on" modules offer up to 80 digital I/O. Digital inputs are high impedance 24 VDC. Outputs are PNP transistor.







- 4 FlexHIO models
- Free Programming Software
- Snap-on & Non-Removable I/O
- Solid & Robust Ladder Logic programming
- TFT Touchscreen models (3.5" and 5.7")
- 6 User defined function keys
- 36-Month warranty





3.1" model shown with non-removable I/O.

Ladder Support

FlexHIO panels support ladder functionality. Users define logic in the unit utilizing our free FlexWare software. The ladder execution cand be through the communication port or through I/O. Only the toucscreen models support full ladder functionality. FlexWare supports a large number of instruction types (see manual for detailed information).

Other features include:

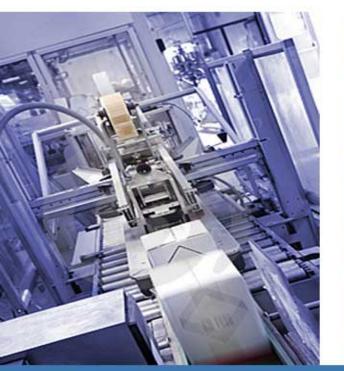
Datalogging
Trending
Birmaps
Recipes
Alams
Multi Language
Unicode support
Events
High Speed Timers
Data Transfer
Debugging



Function Keys.

Messaging

All FlexHIO panels have 6 LED function keys. The keys are are screen dependent, allowing the user to assign any related application task or function to them.













FlexHIO Series. Human Machine Interfaces with Integrated PLC



Model: FH9020MR-L0808P Display: 2 line, 16 Characters

Memory: 512K

I/O: 8 DC in / 8 PNP 0.5A

Serial Ports: 1 USB: 1 Slave Port



Model: FH9020MR-L0808N Display: 2 line, 16 Characters

Memory: 512K

I/O: 8 DC in / 8 NPN 0.5A

Serial Ports: 1 USB: 1 Slave Port



Model: FH9020MR-L0808R Display: 2 line, 16 Characters

Memory: 512K

I/O: 8 DC in / 6 Relays 2A / 2 NP

Serial Ports: 1 USB: 1 Slave Port



Model: FH9030MR-L1208R

Display: 3.1" Backlight LCD 126x64 Res.

Memory: 512K + 1MB

I/O: 12 DC in / 6 Relays 2A / 2 NPN 0.5A

Serial Ports: 1 USB: 1 Slave Port





(O LCO CONTRAST)





Power: + 24V DC ±10%

Bezel: IP 65 rated Keypad / Touch Screen

Operating Temperature: 0 to 50 C Storage Temperature: -20 to 80 C

Humidity: 10% to 85% (Non condensing)
Communication Ports: One / Two serial ports
USB Slave Port: Programming and monitoring
USB Master Port: Memory stick, Printers, etc.

Display Life: 50000 hrs at 25 C Colors: 32K for Color TFT displays



Model: FH9035T-E

Display: 3.5" TFT Color Touchscreen

Memory: 8MB

I/O: Up to 3 "snap-on" I/O Modules

Serial Ports: 1

USB: 1 Slave / 1 Master



Model: FH9057T-E

Display: 5.7" TFT Color Touchscreen

Memory: 8MB

I/O: Up to 5 "snap-on" I/O Modules

Serial Ports: 1

USB: 1 Slave / 1 Master

Snap-on Digital I/O Modules

The 3.5" and 5.7" FlexHIO models are capabale to accept "snap-on" digitial I/O Modules.

Up to 3 modules can be attached to the rear of the the 3.5" model and up to 5 on the larger 5.7" units.

FHED0808P

8 Digital inputs (PNP or NPN) and 8 PNP transistor outputs (0.5A).

FHED0808N

8 Digital inputs (PNP or NPN) and 8 NPN transistor outputs (0.5A).