



OI Touchscreen Starter Kits

www.IDEC.com/starterkit

High-Performance Series highlights:

- 5.7", 8.4", 10.4" and 12.1" Touchscreens
- 65,536 Color TFT LCD
- Mounts Portrait or Landscape
- Video & Audio Interface
- Remote Access, Monitor & Control
- Super Bright: Up to 800 cd/m
- Support of MicroSmart Expansion Discrete I/O modules
- Serial, Ethernet, & USB ports

Comprehensive Control

The High-Performance series brings performance to a whole new level with advanced features and capabilities. All High-Performance OI touchscreens can remotely access, monitor and control from anywhere using your PC, PDA or Smart Phone. In addition the 8.4" to 12.1" screens come with built-in video input, and audio in/out for video monitoring conditions on the plant floor or playing movie files to give detailed instructions, tutorials, or to show an operation manual.

For a powerful, yet compact choice, we have our Basic series which includes the 4.6" HG1F touchscreen monochrome and the 5.7" HG2G monochrome (12 or 24V DC) or color (12-24V DC) with optional Ethernet ports. All IDEC touchscreens can function as stand-alone devices or communicate with IDEC PLCs, as well as all other major brand PLCs.



For more information, visit
www.IDEC.com/oi



OI Touchscreens

Operator Interface		Power Supply	Software and Cable	Part Number	
Basic Series		4.6" Monochrome, RS232, HG1F-SB22BF-B	30W	√	SMARTTOUCH-1F
		5.7" Monochrome, 12V DC, HG2G-SB21VF-B	30W	√	SMARTTOUCH-2G-M12V
		5.7" Monochrome, 24V DC, HG2G-SB22VF-B	30W	√	SMARTTOUCH-2G-M
		5.7" Monochrome, 24VDC, Ethernet, HG2G-SB22TF-B	30W	√	SMARTTOUCH-2G-EM
		5.7" 256 Color TFT LCD, 12-24VDC, HG2G-5ST22TF-B	60W	√	SMARTTOUCH-2GTE
		5.7" 65K Color TFT, HG2G-5FT22TF-B	60W	√	SMARTTOUCH-2GHP
High-Performance Series		8.4" 65K Color TFT , Video In, Audio In/Out, HG3G-8JT22MF-B	60W	√	SMARTTOUCH-3G8HP
		10.4" 65K Color TFT, Video In, Audio In/Out, HG3G-AJT22MF-B	60W	√	SMARTTOUCH-3GAHP
		12.1" 65K Color TFT, Video In, Audio In/Out, HG4G-CJT22MF-B	60W	√	SMARTTOUCH-4GHP

All packages come with Automation Organizer software suite and a communication cable.



MicroSmart Pentra highlights:

- Embedded Ethernet CPU
- Modbus TCP, RTU and ASCII
- 1MB User Web Page
- Email/Text Message Alerts
- USB Programming Port
- Integrated 100KHz High-speed I/O
- Up to 7 Communication Ports
- Max. 512 I/Os

Take Control

MicroSmart Pentra is the fastest micro-PLC on the market. It incorporates all the latest features, a fast processing speed, up to 512 I/Os, built-in Modbus Master/Slave, 32-bit data processing and floating point math in a compact housing. Plus, new MicroSmart Pentra with embedded Ethernet offer everything from Modbus TCP and email/text messaging functionality, to web server functions and an interactive user web page with dynamic data.



Class 1 Div 2
Hazardous
Locations

For more information, visit
www.IDEC.com/plc

MicroSmart Pentra / MicroSmart

	CPU Type	Power Supply	Software and Cable	Part Numbers
	16 I/O, FC5A-D16RS1 CPU	30W	✓	MM-PENTRA-16
	24 I/O, FC5A-C24R2 CPU	–	✓	MM-PENTRA-24
	12 I/O, FC5A-D12S1E Ethernet CPU	30W	✓	MM-PENTRA-12
	10 I/O, FC4A-C10R2 CPU	–	✓	MM-SMART-10
	16 I/O, FC4A-C16R2 CPU	–	✓	MM-SMART-16
	20 I/O, FC4A-D20RK1 CPU	15W	✓	MM-SMART-20
	24 I/O, FC4A-C24R2 CPU	–	✓	MM-SMART-24
	40 I/O, FC4A-D40K3 CPU	15W	✓	MM-SMART-40

All packages come with Automation Organizer software suite and a communication cable.



FL1E

General Applications

- Liquid Level Controls
- Valves and Pumps Control
- Solar Traffic Lights
- Relay/Timer replacement

Setup as Easy as 1-2-3

IDEC SmartRelay is a cost-effective solution to simple logic controls. It's an ideal replacement for your relay control system on small I/O sequencing applications. One IDEC SmartRelay can replace the relays, timers and counters in your control panel. With I/Os expandable up to 50, built-in analog inputs, built-in LCD display for programming and monitoring, and 10A relay outputs, you can do more than ever before.



Class 1 Div 2
Hazardous
Locations

For more information, visit
www.IDEC.com/smartrelay

IDEC SmartRelay

	Controller Type	LCD Screen	Software and Cable	Part Numbers
	12 I/O, 120-240V AC/DC, FL1E-B12RCC CPU	–	✓	SMARTSTART-BAC-E
	12 I/O, 12/24V DC, FL1E-B12RCE CPU	–	✓	SMARTSTART-BDC-E
	12 I/O, 120-240V AC/DC, FL1E-H12RCC CPU	✓	✓	SMARTSTART-HAC-E
	12 I/O, 12/24V DC, FL1E-H12RCE CPU	✓	✓	SMARTSTART-HDC-E

All packages come with WindLCC software and a communication cable.

Combined Starter Kits (Touchscreen & PLC) www.IDEC.com/starterkit

Complete Control Packages

Whether you want to give IDEC products a try, or you already use them, but want a complete automation system that is quick and easy to put together, our starter kits are a great deal! Each package includes an operator interface and your choice of 4.6" 12.1" LCD screens. They also include a MicroSmart Pentra PL (Slim with Embedded Ethernet or All-in-One design), a slim power supply, cables and software. Just buy a package and you're ready to go. Keep in mind, when you purchase an IDEC Starter Kit, you get not only the hardware and software; you also get access to technical support. And, even better, that technical support is free along with software upgrades, saving you even more time and money. Give IDEC a try today and start pulling in the savings now.



OI Touchscreens & PLCs

	Operator Interface	CPU Type	Power Supply	Part Numbers
	4.6" Monochrome, RS232, HG1F-SB22BF-B	24 I/O, FC5A-C24R2C CPU	60W	KIT-PENTRA-24-HG1F
	4.6" Monochrome, RS232, HG1F-SB22BF-B	12 I/O, FC5A-D12S1E, Ethernet CPU	60W	KIT-PENTRA-12-HG1F
	5.7" Monochrome, 24VDC, Ethernet, HG2G-SB22TF-B	24 I/O, FC5A-C24R2C CPU	60W	KIT-PENTRA-24-HG2G-M
	5.7" Monochrome, 24VDC, Ethernet, HG2G-SB22TF-B	12 I/O, FC5A-D12S1E, Ethernet CPU	60W	KIT-PENTRA-12-HG2G-M
	5.7" 256 Color TFT, Ethernet, HG2G-5ST22TF-B	24 I/O, FC5A-C24R2C CPU	60W	KIT-PENTRA-24-HG2G-TE
	5.7" 256 Color TFT, Ethernet, HG2G-5ST22TF-B	12 I/O, FC5A-D12S1E, Ethernet CPU	60W	KIT-PENTRA-12-HG2G-TE
	5.7" 65K Color TFT, HG2G-5FT22TF-B	16 I/O, FC5A-D16RS1 CPU	60W	KIT-PENTRA-16-HG2G-HP
	5.7" 65K Color TFT, HG2G-5FT22TF-B	24 I/O, FC5A-C24R2C CPU	60W	KIT-PENTRA-24-HG2G-HP
	5.7" 65K Color TFT, HG2G-5FT22TF-B	12 I/O, FC5A-D12S1E, Ethernet CPU	60W	KIT-PENTRA-12-HG2G-HP
	5.7" 65K Color TFT, HG2G-5FT22TF-B	12 I/O, FC5A-D12S1E, Ethernet CPU	60W	KIT-PENTRA-12-HG2G-HP
	8.4" 65K Color TFT, Video In, Audio In/Out, HG3G-8JT22MF-B	16 I/O, FC5A-D16RS CPU	60W	KIT-PENTRA-16-HG3G-8HP
	8.4" 65K Color TFT, Video In, Audio In/Out, HG3G-8JT22MF-B	12 I/O, FC5A-D12S1E, Ethernet CPU	60W	KIT-PENTRA-12-HG3G-8HP
	10.4" 65K Color TFT, Video In, Audio In/Out, HG3G-AJT22MF-B	16 I/O, FC5A-D16RS1 CPU	60W	KIT-PENTRA-16-HG3G-AHP
	10.4" 65K Color TFT, Video In, Audio In/Out, HG3G-AJT22MF-B	12 I/O, FC5A-D12S1E, Ethernet CPU	60W	KIT-PENTRA-12-HG3G-AHP
	12.1" 65K Color TFT, Video In, Audio In/Out, HG4G-CJT22MF-B	16 I/O, FC5A-D16RS1 CPU	60W	KIT-PENTRA-16-HG4G-HP
	12.1" 65K Color TFT, Video In, Audio In/Out, HG4G-CJT22MF-B	12 I/O, FC5A-D12S1E, Ethernet CPU	60W	KIT-PENTRA-12-HG4G-HP

OI Touchscreens have black bezels. All packages come with Automation Organizer software suite and communication cables.



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