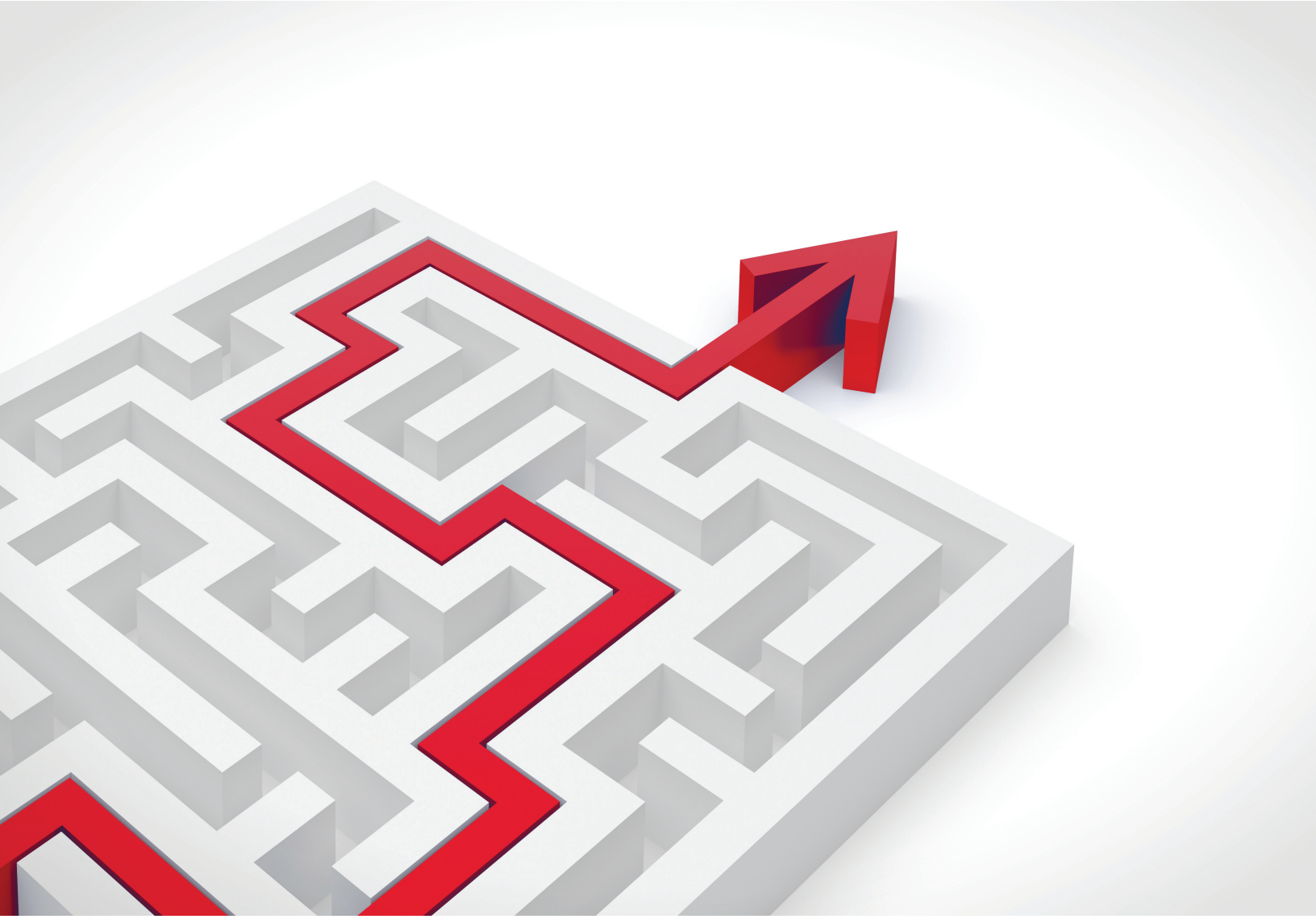
IDEC

Think Automation and beyond...

Complete Control Solutions

Starter Kits



IDEC CORPORATION

Complete Control Packages

Combined HMI and PLC Starter Kits

Want to test new ideas and build machines using the most up-to-date automation and control products on the market? Ready to upgrade your current system? Each Starter Kits includes an HMI with your choice of 4.3" to 15" LCD screen. Also included is a MicroSmart FC6A PLC, a PS5R-V power supply, programming cables and the Automation Organizer software suite. All the tools you need at a very special price. As a bonus, not only do you get the hardware and software, but you also get total access to free technical support and free software upgrades. Just buy a package and you're ready to go!

Class I Div 2 Hazardous Location

Programmable Touchscreen Type		PLC Type		Power Supply	Part Number	Reg. Price	Package Price
	HG1G-4VT22TF-B 4.3" Color TFT LCD Display		FC6A-C16R1AE 16 I/O CPU 100-240VAC Relay	PS5R-VD24 60W 2.5A	KIT-FC6A-16-RA-HG1G	$989	$599
			FC6A-C16R1CE 16 I/O CPU 24VDC Relay		KIT-FC6A-16-RC-HG1G	$989	$599
			FC6A-C24R1AE 24 I/O CPU 100-240VAC Relay		KIT-FC6A-24-RA-HG1G	$1,089	$679
			FC6A-C24R1CE 24 I/O CPU 24VDC Relay		KIT-FC6A-24-RC-HG1G	$1,089	$679
			FC6A-D16R1CEE 16 I/O CPU 24VDC Plus Type		KIT-FC6A-D16R-HG1G	$1,178	$739
			FC6A-D32P3CEE 32 I/O CPU 24VDC Plus Type		KIT-FC6A-D32P-HG1G	$1,278	$789
	HG2G-5TN22TF-B 5.7" Monochrome TFT LCD Display		FC6A-C16R1AE 16 I/O CPU 100-240VAC Relay		KIT-FC6A-16-RA-HG2G-5TN	$1,650	$825
			FC6A-C16R1CE 16 I/O CPU 24VDC Relay		KIT-FC6A-16-RC-HG2G-5TN	$1,650	$825
			FC6A-C24R1AE 24 I/O CPU 100-240VAC Relay		KIT-FC6A-24-RA-HG2G-5TN	$1,750	$925
			FC6A-C24R1CE 24 I/O CPU 24VDC Relay		KIT-FC6A-24-RC-HG2G-5TN	$1,750	$925
			FC6A-D16R1CEE 16 I/O CPU 24VDC Plus Type		KIT-FC6A-D16R-HG2G-5TN	$1,539	$929
			FC6A-D32P3CEE 32 I/O CPU 24VDC Plus Type		KIT-FC6A-D32P-HG2G-5TN	$1,639	$999
	HG2G-5TT22TF-B 5.7" Color TFT LCD Display		FC6A-C16R1AE 16 I/O CPU 100-240VAC Relay		KIT-FC6A-16-RA-HG2G-5TT	$1,450	$899
			FC6A-C16R1CE 16 I/O CPU 24VDC Relay		KIT-FC6A-16-RC-HG2G-5TT	$1,450	$899
			FC6A-C24R1AE 24 I/O CPU 100-240VAC Relay		KIT-FC6A-24-RA-HG2G-5TT	$1,550	$999
			FC6A-C24R1CE 24 I/O CPU 24VDC Relay		KIT-FC6A-24-RC-HG2G-5TT	$1,550	$999
			FC6A-D16R1CEE 16 I/O CPU 24VDC Plus Type		KIT-FC6A-D16R-HG2G-5TT	$1,539	$999
			FC6A-D32P3CEE 32 I/O CPU 24VDC Plus Type		KIT-FC6A-D32P-HG2G-5TT	$1,639	$1,059

Programmable Touchscreen Type		PLC Type		Power Supply	Part Number	Reg. Price	Package Price
	HG2G-V5FT22TF-B 5.7" Color TFT LCD Display High-Performance Series		FC6A-C16R1CE 16 I/O CPU 24VDC Relay	PS5R-VD24 60W 2.5A	KIT-FC6A-C16R-HG2G-VHP	$1,544	$1,199
			FC6A-C24R1CE 24 I/O CPU 24VDC Relay		KIT-FC6A-C24R-HG2G-VHP	$1,644	$1,299
			FC6A-D16R1CEE 16 I/O CPU 24VDC Plus Type		KIT-FC6A-D16R-HG2G-VHP	$1,734	$1,299
	HG3G-V8XT22MF-B 8.4" Color TFT LCD Display High-Performance Series		FC6A-C16R1CE 16 I/O CPU 24VDC Relay		KIT-FC6A-C16R-HG3G-V8HP	$1,898	$1,499
			FC6A-C24R1CE 24 I/O CPU 24VDC Relay		KIT-FC6A-C24R-HG3G-V8HP	$1,998	$1,549
			FC6A-D16R1CEE 16 I/O CPU 24VDC Plus Type		KIT-FC6A-D16R-HG2G-VHP	$2,080	$1,549
	HG3G-VAXT22MF-B 10.4" Color TFT LCD Display High-Performance Series		FC6A-C16R1CE 16 I/O CPU 24VDC Relay		KIT-FC6A-C16R-HG3G-VAHP	$2,089	$1,699
			FC6A-C24R1CE 24 I/O CPU 24VDC Relay		KIT-FC6A-C24R-HG3G-VAHP	$2,189	$1,749
			FC6A-D16R1CEE 16 I/O CPU 24VDC Plus Type		KIT-FC6A-D16R-HG3G-VAHP	$2,288	$1,749
	HG4G-VCXT22MF-B 12.1" Color TFT LCD Display High-Performance Series		FC6A-C16R1CE 16 I/O CPU 24VDC Relay		KIT-FC6A-C16R-HG4G-VHP	$2,444	$1,839
			FC6A-C24R1CE 24 I/O CPU 24VDC Relay		KIT-FC6A-C24R-HG4G-VHP	$2,544	$1,949
			FC6A-D16R1CEE 16 I/O CPU 24VDC Plus Type		KIT-FC6A-D16R-HG4G-VHP	$2,634	$1,949
	HG5G-VFXT22MF-B 15" Color TFT LCD Display High-Performance Series		FC6A-C16R1CE 16 I/O CPU 24VDC Relay		KIT-FC6A-C16R-HG5G-VHP	$2,898	$2,399
			FC6A-C24R1CE 24 I/O CPU 24VDC Relay		KIT-FC6A-C24R-HG5G-VHP	$2,989	$2,499
			FC6A-D16R1CEE 16 I/O CPU 24VDC Plus Type		KIT-FC6A-D16R-HG5G-VHP	$3,088	$2,499

HMI Starter Kits

HMIs

IDEC touchscreens are redefining Human Machine Interaction. Featuring up to 1100 cd/m2 brightness and over 100,000 hours of backlight life, they are the brightest, longest-lasting displays on the market. An exceptionally wide operating temperature range of -20°C to +60°C as well as IP66F, IP67F, Type 4X, 12, 13, Marine Approvals, and Class I Div 2 approval ratings, assures reliable operation in the toughest environments.

- 4.3" to 15" TFT LCD Color Displays
- Super Bright: up to 1100 cd/m²
- High Resolution Display: up to 1024 x 768 pixels
- Extreme Operating Temp: -20°C to +60°C
- Backlight Lifespan: up to 100,000 hours minimum
- Supports FTP, Email, Web Server, BACnet/IP, WindEDIT Mobile App, Multiple protocols simultaneously
- Modbus TCP or RTU
- Video & Audio Interface (8.4" to 15")
- Supports analog and digital I/O expansion modules (High Performance Series)
- 3 years warranty

Class I Div 2 Hazardous Location

Programmable Touchscreen	Size	Type	Power Supply	Software and Cable	Part Number	Reg. Price	Package Price
	4.3"	HG1G-4VT22TF-B 4.3" Color TFT LCD Display	PS5R-VC24 30W 1.25A	✓	SMARTTOUCH-1G-B	$699	**$329**
	5.7"	HG2G-5TN22TF-B 5.7" Monochrome TFT LCD Display	PS5R-VC24 30W 1.25A	✓	SMARTTOUCH-2G-5TN	$1,060	**$650**
		HG2G-5TT22TF-B 5.7" Color TFT LCD Display		✓	SMARTTOUCH-2G-5TT	$1,160	**$750**
		HG2G-V5FT22TF-B 5.7" Color TFT LCD Display High-Performance Series		✓	SMARTTOUCH-2GVHP-B	$1,259	**$945**
	8.4"	HG3G-V8XT22MF-B 8.4" Color TFT LCD Display High Performance Series	PS5R-VD24 60W 2.5A	✓	SMARTTOUCH-3GV8HP-B	$1,613	**$1,299**
	10.4"	HG3G-VAXT22MF-B 10.4" Color TFT LCD Display High Performance Series		✓	SMARTTOUCH-3GVAHP-B	$1,813	**$1,499**
	12.1"	HG4G-VCXT22MF-B 12.1" Color TFT LCD Display High Performance Series		✓	SMARTTOUCH-4GVHP-B	$2,159	**$1,799**
	15"	HG5G-VFXT22MF-B 15" Color TFT LCD Display High Performance Series		✓	SMARTTOUCH-5GVHP-B	$2,613	**$2,249**

Handheld HMI Touchscreen	Size	Type	Power Supply	Software and Cable	Part Number	Reg. Price	Package Price
	4.3"	HG1P-ST32YBFH-B0 4.3" Color TFT LCD Display RS485/RS422	PS5R-VC24 30W 1.25A	✓	SMARTTOUCH-1P-Y	$1,259	**$910**
		HG1P-ST32ZBFH-B0 4.3" Color TFT LCD Display Ethernet			SMARTTOUCH-1P-Z	$1,309	**$960**

HMI+PLC and SmartRelay Starter Kits

HMI+PLC

The perfect combination of PLC processing and HMI monitoring and control, the compact 3.8-inch SmartAXIS Touch is an all-in-one touchscreen interface and logic controller. Perfect for small systems that require a graphical user interface along with versatile I/O controls, this HMI+PLC unit optimizes efficiency and productivity by providing the same functionality as a separate PLC and HMI system, at an affordable price.

FT1A

- 3.8" HMI+PLC
- 12 or 14 I/O models
- Embedded RJ45 Ethernet port
- Modbus TCP or RTU
- Two built-in analog inputs
- Two built-in analog outputs (14 I/O)
- PID Controls (14 I/O)
- USB Maintenance Port
- -20 to 55 degree C operating temperatures
- IP66f, NEMA 4X (indoor) & 13

Class I Div 2 Hazardous Location

	Type	Power Supply	Software and Cable	Part Number	Reg. Price	Package Price
	FT1A-C12RA-* 12 I/O Type Relay Output	PS5R-VC24 30W 1.25A		KIT-TOUCH-C*	$850	**$415**
	FT1A-C14SA-* 14 I/O Type Transistor Source Output			KIT-TOUCH-CS*	$1050	**$625**
	FT1A-C14KA-* 14 I/O Type Transistor Sink Output			KIT-TOUCH-CK*	$1050	**$625**

*Insert B=black bezel, S=silver bezel, W-white bezel

SmartRelay

Proving reliable time after time, these intelligent logic modules are the ideal controller for simple automation tasks. A sixth-generation of SmartRelays offer functions to give you even more flexibility and convenience. Advances include a maximum of 60 I/O, built-in Ethernet, micro SD interface, extended memory, Modbus TCP, a brighter display with higher LCD contrast, improved analog and high-speed inputs, an external text display and upgraded programming software.

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

FL1F

Class I Div 2 Hazardous Location

	CPU Type	Power Supply	Software	Part Number	Reg. Price	Package Price
	FL1F-B12RCA 24 VAC/DC Type Without LCD	PS5R-VB24 15W 0.6A	✓	KIT-SMARTRELAY-BAF	$312	**$179**
	FL1F-B12RCC 100-240 VAC/DC Type Without LCD	-	✓	KIT-SMARTRELAY-BCF	$229	**$179**
	FL1F-B12RCE 12-24 VDC Type Without LCD	PS5R-VB24 15W 0.6A	✓	KIT-SMARTRELAY-BEF	$372	**$179**
	FL1F-H12RCA 24 VAC/DC Type With LCD	PS5R-VB24 15W 0.6A	✓	KIT-SMARTRELAY-HAF	$347	**$199**
	FL1F-H12RCC 100-240 VAC/DC Type With LCD	-	✓	KIT-SMARTRELAY-HCF	$264	**$199**
	FL1F-H12RCE 12-24 VDC Type With LCD	PS5R-VB24 15W 0.6A	✓	KIT-SMARTRELAY-HEF	$402	**$199**
	FL1F-H12SCD 24 VDC Type With LCD	PS5R-VB24 15W 0.6A	✓	KIT-SMARTRELAY-HDF	$327	**$199**

MicroSmart FC6A All-in-One

MicroSmart FC6A All-in-One PLC

The power of a PAC in a micro PLC. With an adaptive design and a multitude of built-in features, new MicroSmart FC6A PLCs offer unmatched performance, quick and easy WindLDR programming, 640KB of program memory and super-fast processing times ideal for demanding control applications. Unique to this class of PLCs, you can also create custom web pages configured for remote monitoring and control simply by using drag-and-drop functionality. No HTML programming required!

- Embedded Ethernet port
- Modbus TCP and RTU
- Maximum 520 digital/126 analog I/O
- Data logging
- Large program & data memory
- Embedded SD memory port
- Embedded RS232C/RS485 user selectable
- Web Server functions

Class I Div 2 Hazardous Location

		Type	Power Supply	Software	Part Number	Reg. Price	Package Price
	16 I/O	FC6A-C16R1AE 100-240VAC Relay	-	✓	KIT-FC6A-16-RA	$644	$329
		FC4A-C16R1CE 24VDC Relay	PS5R-VC24 30W 1.25A	✓	KIT-FC6A-16-RC	$699	$329
		FC6A-C16R1DE 12VDC Relay	-	✓	KIT-FC6A-16-RD	$644	$329
		FC6A-C16P1CE 24VDC Trans. Source	PS5R-VC24 30W 1.25A	✓	KIT-FC6A-16-PC	$699	$329
		FC6A-C16P1DE 12VDC Trans. Source	-	✓	KIT-FC6A-16-PD	$644	$329
		FC6A-C16K1CE 24VDC Trans. Sink	PS5R-VC24 30W 1.25A	✓	KIT-FC6A-16-KC	$699	$329
		FC6A-C16K1DE 12VDC Trans. Sink	-	✓	KIT-FC6A-16-KD	$644	$329
	24 I/O	FC6A-C24R1AE 100-240VAC Relay	-	✓	KIT-FC6A-24-RA	$744	$429
		FC4A-C24R1CE 24VDC Relay	PS5R-VC24 30W 1.25A	✓	KIT-FC6A-24-RC	$799	$429
		FC6A-C24P1CE 24VDC Trans. Source		✓	KIT-FC6A-24-PC	$799	$429
		FC6A-C24K1CE 24VDC Trans. Sink		✓	KIT-FC6A-24-KC	$799	$429
	40 I/O	FC6A-C40R1AE 100-240VAC Relay	-	✓	KIT-FC6A-40-RA	$909	$599
		FC6A-C40R1CE 24VDC Relay	PS5R-VC24 30W 1.25A	✓	KIT-FC6A-40-RC	$959	$599
		FC6A-C40P1CE 24VDC Trans. Source		✓	KIT-FC6A-40-PC	$959	$599
		FC6A-C40K1CE 24VDC Trans. Sink		✓	KIT-FC6A-40-KC	$959	$599
		FC6A-C40R1DE 12VDC Relay	PS5R-VC12 30W 2.5A	✓	KIT-FC6A-40-RD	$959	$599
		FC6A-C40P1DE 12VDC Trans. Source		✓	KIT-FC6A-40-PD	$959	$599
		FC6A-C40K1DE 12VDC Trans. Sink		✓	KIT-FC6A-40-KD	$959	$599
	40 I/O J1939	FC6A-C40R1AEJ 100-240VAC Relay	-	✓	KIT-FC6A-40-RAJ	$1,009	$699
		FC6A-C40R1CEJ 24VDC Relay	PS5R-VC24 30W 1.25A	✓	KIT-FC6A-40-RCJ	$1,059	$699
		FC6A-C40P1CEJ 24VDC Trans. Source		✓	KIT-FC6A-40-PCJ	$1,059	$699
		FC6A-C40K1CEJ 24VDC Trans. Sink		✓	KIT-FC6A-40-KCJ	$1,059	$699
		FC6A-C40R1DEJ 12VDC Relay	PS5R-VC12 30W 2.5A	✓	KIT-FC6A-40-RDJ	$1,059	$699
		FC6A-C40P1DEJ 12VDC Trans. Source		✓	KIT-FC6A-40-PDJ	$1,059	$699
		FC6A-C40K1DEJ 12VDC Trans. Sink		✓	KIT-FC6A-40-KDJ	$1,059	$699

MicroSmart FC6A Plus PLC and FT1A Controler Starter Kits

MicroSmart FC6A Plus PLC

The next generation IDEC MicroSmart FC6A Plus PLC stretches performance beyond micro PLC limits! With its 2,060 I/O capacity, this PLC can control large machines or entire small-scale manufacturing facilities, providing more capabilities for even the most demanding applications.

- Dual Ethernet Ports
- iOS & Android App
- Bluetooth Communication
- Embedded SD memory port
- Modbus TCP and RTU
- EtherNet/IP
- MQTT and BACnet/IP
- Data Logging
- Web Server Functions
- 800KB programming memory

Class I Div 2 Hazardous Location

	I/O	TYPE	Power Supply	Software	Part Number	Reg. Price	Package Price
	16 I/O	FC6A-D16R1CEE 16 I/O 24VDC Relay	PS5R-VD24 60W 2.5A	✓	KIT-FC6A-P16-R	$889	$525
		FC6A-D16P1CEE 16 I/O 24VDC Source		✓	KIT-FC6A-P16-S	$889	$525
		FC6A-D16K1CEE 16 I/O 24VDC Sink		✓	KIT-FC6A-P16-K	$889	$525
	32 I/O	FC6A-D32P3CEE 32 I/O 24VDC Source		✓	KIT-FC6A-P32-S	$989	$625
		FC6A-D32K3CEE 32 I/O 24VDC Sink		✓	KIT-FC6A-P32-K	$989	$625

FT1A Controllers

A choice of 12, 24, 40 and 48 I/O SmartAXIS controllers provide users with unique features and advanced functions for applications requiring limited I/O.

FT1A 48 I/O

FT1A 12 I/O

Class I Div 2 Hazardous Location

	CPU Type	Power Supply	Software	Part Number	Reg. Price	Package Price
	FT1A-H12RC 12 I/O 100-240VAC With LCD	-	✓	KIT-SMART-12-HAC	$533	$199
	FT1A-H12RA 12 I/O 24VDC With LCD	PS5R-VC24 30W 1.25A	✓	KIT-SMART-12-HDC	$612	$219
	FT1A-H24RC 24 I/O 100-240VAC With LCD	-	✓	KIT-SMART-24-HAC	$723	$359
	FT1A-H24RA 24 I/O 24VDC With LCD	PS5R-VC24 30W 1.25A	✓	KIT-SMART-24-HDC	$802	$359
	FT1A-H40RKA 40 I/O 24VDC With LCD Relay/Sink	PS5R-VC24 30W 1.25A	✓	KIT-SMART-40-HDC-RK	$846	$399
	FT1A-H40RSA 24 I/O 24VDC With LCD Relay/Source	PS5R-VC24 30W 1.25A	✓	KIT-SMART-40-HDC-RS	$846	$399
	FT1A-H48KC 48 I/O 100-240VAC With LCD Sink	-	✓	KIT-SMART-48-HAC-K	$828	$469
	FT1A-H48KA 48 I/O 24VDC With LCD Sink	PS5R-VC24 30W 1.25A	✓	KIT-SMART-48-HDC-K	$907	$469

Intensive Hands-on PLC and HMI Training

Looking to improve your knowledge of PLCs and HMIs? IDEC's training course combines hands-on instruction and real-world examples. Topics include:

- Start/stop and latching circuits
- Timers and counters
- EtherNet/IP, MQTT, and Modbus communications
- Email/Text and web page setup
- PID configuration
- Pushbuttons, pilot lights
- Data displays and data inputs
- Graphics and animation
- Alarms and passwords
- Remote control and monitor

HMI Training Kit

This training course covers programming for MicroSmart FC6A PLCs and HG series HMIs. Classes include Q&A sessions with our experts to discuss specific applications.

Choose from kits featuring introductory-level products all the way up to our most advanced HMIs and PLCs. For detailed information, our current schedule and to sign up for a class, visit **http://training.IDEC.com**.

800.262.4332

www.IDEC.com/usa

IDEC *Think Automation and beyond...*

Product Information

OI Touchscreens:
www.IDEC.com/oi

Automation Forum:
http://us.IDEC.com/forum

FT1A SmartAXIS:
www.IDEC.com/smartaxis

SmartRelay:
www.IDEC.com/smartrelay

Software:
www.IDEC.com/software

Starter Kits:
www.IDEC.com/starterkit

Product Support

Technical support:
support@IDEC.com

PLC and HMI Training:
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Find your local IDEC Representative or Distributor:
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Software Upgrades and Support

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