FT2J 7" PLC+HMI

IDEC

Think Automation and beyond...



Smart AXIS

The All-in-One Solution for Seamless Solution

Cutting-Edge Technology

Design-in More Function with Enhanced Features

The new 7" FT2J Series PLC+HMI expands the SmartAXIS touch family with a popular size and all-in-one form factor. Featuring built-in analog inputs, analog outputs, and expandable digital and analog I/O, temperature control, and PID control, this all-in-one solution provides seamless integration for space-limited applications. Combining a PLC and HMI into a single platform offers numerous benefits across diverse industries.



Compact Design

One PLC+HMI consumes less panel space than separate PLC and HMI units.



Simplified Installation

A combined PLC+HMI minimizes wiring time and the need for additional components because the PLC and HMI are internally connected, require only a single power supply, and share the same network connection to the outside world.



Streamlined Programming

An intuitive and easy-to-use integrated development environment for both PLC and HMI functions cuts configuration and programming time, and the PLC+HMI is ready to use and communicate right out of the box.



Advanced Capabilities

Flexible I/O options, discrete and analog I/O expansion cartridges, and capable PID loop control functionality ensure the PLC+HMI is adaptable for many applications.



Cost-Effective

By minimizing the physical footprint, installation effort, and programming complexity, an expandable PLC+HMI can be the most cost-effective visualization and automation solution for many applications.



Uncompromising Design for a Variety of Applications

Many small and medium laboratory, commercial, and industrial applications simply don't have the space or I/O content to justify larger and more complex individual PLC and HMI installations. An PLC+HMI unit is a popular-sized form factor to provide clear local visualization and comprehensive automation for a variety of cases.

With a wide range of operating temperature -20 to 55 °C, this PLC+HMI carries the highest industry standards IP66F/67F, UL61010, Type 4X, 12 and 13 approval ratings and is suitable for installation in Class I Division 2 hazardous locations.



Food and Beverage



Packaging



Wastewater Treatment



And much more



800.262.4332 **LP.IDEC.COM/FT2J**





Versatility and Adaptability

Powerful PLC features



14-points of Digital, Analog, and High-speed Inputs

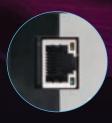
5 inputs are configurable as high-speed counters up to 20kHz.

4 inputs are configurable as 0-10V DC or 4-20mA, 12-bit resolution analog inputs.



Two USB-A Ports

Connection of flash drives for data logging, recipe data, program transfer, and dongles for speakers, Wi-Fi and Bluetooth.



RJ45 Ethernet Port

Supports Modbus TCP, for communications with other intelligent devices and remote monitoring.



Push-in type Power Connector

Used for providing easy installation and service



Expansion I/O Cartridges

Supports up to two expansion cartridges of discrete or analog I/O.

RTD/thermocouple 2-points of analog input module (12-bit resolution).



Relay version provides 8-points of discrete relay outputs.

Transistor versions provide 6-points of sinking or sourcing discrete outputs.

Analog Outputs

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(Transistor versions only)

2-points built-in analog output configurable as 0-10V or 4-20mA, 12-bit resolution.

RS232 and RS485 ports

Supports serial communication (including Modbus RTU).



Leading-Edge HMI Design

Projected Capacitive (PCAP) Touch Panel Display

- Less layers provide improved display performance for color, brightness, and overall visibility.
- Prevent accidental input due to particles and water droplets.

□ Compact

- Saves space while providing the greatest amount of display area.
- Results in a very thin mounting depth.



Multi-touch

- Multi-touch capable.
- Compatible with thin gloves.



Easy Configuration

- Project program files can easily be transferred between a USB memory stick and FT2J.
- All-in-one design means fewer parts, fewer connections, a smaller footprint and greater convenience.



Glass-top Touch Panel

- Wear-resistant, scratch resistant, and provides a long life.
- Easily cleaned using chemical washdown or simple wipes and has a high tolerance for dirt deposits.



Technologically Advanced Design

Robust Additions Features and Highlights



Dual CPU Structure

Scan times are optimized because the PLC and HMI in the PLC+HMI unit each has its own CPU and memory.



Having this option to configure the analog inputs/outputs on the CPU saves you time, space, and money.



Low Maintenance

Battery-free MRAM and hypercapacitor design eliminate the need for battery-replacement.



Wide Operating **Temperatures**

-20 to 55°C. This makes it tough enough for challenging environments like oil and gas and water/wastewater applications.



PID Controls

Essential closed-loop functionality for optimal control of flow, level, pressure, temperature, and other common processes.

All-in-one Intuitive WindO/I-NV4 Software



Single Integrated Software

Accessing all PLC and HMI configuration through one mastered interface provides greater convenience.



Trend Chart

Allows users to closely monitor critical data points and understand how operations are changing over time.



Multilingual Capabilities

Makes it easy to deploy easilyused applications to multiple worldwide locations, or sites with multinational workers.



Drag & Drop UI

Simple and intuitive drag-and-drop functionality for objects such as buttons, lamps, charts, and more.



Program Conversion

Projects can automatically be converted from one HMI screen size to another within seconds using the same software.



Data/Alarm Logging

Critical data can be saved and logged.

Seamless Connectivity Solutions

Enabling Industrial Internet of Things (IIoT) Operation

Remote Monitor and Control

Distance isn't an issue with this combined PLC+HMI. Users with a network/internet connection can access HMI displays as if standing in front of the unit on the factory floor.

FTP Protocol

The FT2J can be configured as an FTP Client or Server for local or remote transfer of programs and logged data between client and server.

Email and Text Messaging

Up to 255 email templates incorporating dynamic values in the email body, and logged files as attachments—can be sent to multiple recipients.

Custom Web Pages

A built-in Web Page Editor makes it simple to create professional and dynamic webpages for monitoring and controlling the FT2J, with no HTML programming required.

iOS and Android Apps

Smartphone and tablet apps provide convenient on-the-go connectivity enabling users to: upload and download programs; monitor and update status; access logged data and manage files in a USB flash drive.

WindEDIT Lite







Optimizing Industrial Communication







Hands-On PLC & HMI Training Seminars

Looking to improve your knowledge of PLCs and HMIs? IDEC's training course combines hands-on and real-world applications examples. Some of the covered topics include:

- PLC fundamentals such as hardware, numbering systems and how a PLC works.
- Basic functions and advanced functions including EtherNet/IP, Math Instructions, Subroutines, Scripting, Web page setup, Email and Text Notifications, Modbus Communications. PIDD and so much more.
- Programming on the super bright, high-performance HMI.
- Demonstrations on the MicroSmart FC6A and HML

The training course includes Q&A session with our experts to discuss your specific controls applications.



For detailed information, our current schedule and to signup for a class, please visit training.IDEC.com.

For general information, contact training@IDEC.com or call 408.745.5214.

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