THE FUNCTIONALITY OF A PLC AND HMI IN ONE DEVICE. ACCESS AND CONTROLS ARE VIA A REINFORCED GLASS PCAP TOUCHSCREEN.

FT1J

Controller with Operator Interface

The FT1J is a compact, all-in-one controller and operator interface - one of IDEC's integrated automation solutions. The unit is a smaller alternative to the FT2J. It reduces installation space and energy use, keeping built-in features and versatility high.

SWITCHES	SAFETY	PANEL	AUTOMATION

TECHNICAL FEATURES

- 4.3 inch tempered glass PCAP touchscreen, full color display
- Rated IP66F/IP67F for water resistance, including against direct jet sprays
- Wide operating temperature range (-20 to +55°C)
- Digital and analog I/Os
- Dual CPU configuration (control and HMI) for high-speed processing
- Compatible with various external devices
- Specialist programming software (part of Automation Organizer)

MAIN APPLICATIONS

The FT1J is a reliable, efficient controller for various systems and equipment:

- OEM machinery
- Food machinery (processing/packaging)
- Chemical and molding equipment
- Machine tools and metal processing
- Fan/pump/compressor/HVAC systems

FT1J

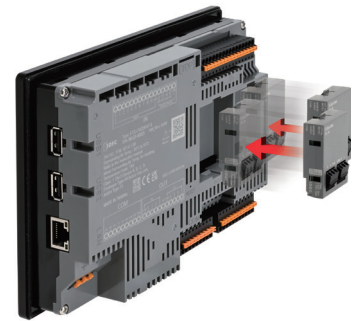INTEGRATED PLC AND HMI FOR SEAMLESS AUTOMATION

CUSTOMER BENEFITS

- Compact design: approx. half the depth of a separate PLC and HMI combined.
- Quicker, easier installation: vibration-resistant push-in terminal blocks simplify wiring.
- Power saving: uses roughly 1/3 less energy than 2 separate devices.
- Battery-free: no need to replace or dispose of batteries.
- Environmental resistance: glass top maintains long-term visibility.

END-USER EXPERIENCE

- Sleek bezel design maximizes display space.
- Two CPUs maintain fast processing speed.
- High IP66F/IP67F rating prevents ingress of water and other substances.
- Touchscreen resists activation by water droplets, supports multi-touch sensing.
- UV resistance keeps the glass panel clear.

CONTROL FUNCTIONS AND CONNECTIVITY

- Connect up to 2 digital or analog I/O cartridges to increase the inputs/outputs
- Compatibility with external devices allows for highly customized systems
- PID algorithm with cascade control enables precise monitoring and adjustments
- Software supports custom protocols and has a script function, an image library, and simulation mode

INDUSTRY APPLICATION: FOOD AND PACKAGING

On food production and packaging lines, hygiene is essential. Devices used in these environments need to work reliably under challenging conditions and be easy to clean and sanitize.

- Glass panel is highly resistant to water, oil, dirt, and scratches
- Rubber gloves up to 1.5mm thick* can be worn while operating the touch panel
- Glass can be safely wiped with disinfectant or alcohol
- Industrial operating temperature range ensures functionality in hot and cold (below freezing) food processing environments
- PID algorithm quickly responds to changes in temperature, pressure and flow levels

* The touchscreen may not work with gloves less than 1.5mm thick, depending on the material or environment. Check the operation in the actual environment or under similar conditions.

YOU MIGHT ALSO BE INTERESTED IN

FT2J
Combined PLC + HMI

FC6A
IoT-enabled PLC

◉ Visit the product page   ◉ Consult the brochure

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