Title	Introduction to Delta Touch/Text Panel HMI or with Built-in PLC TP Series
Date	July, 2017
Related Products	Programmable Logic Controller, Text Panel HMI with Built-in PLC, TP Series, Text Panel, Human Machine Interface
Keywords	Programmable Logic Controller, Text Panel HMI with Built-in PLC, TP Series, Text Panel, Human Machine Interface

【Introduction】

With the growth in the intellectualization and digitalization of smart factories, data collected from equipment to provide useful information has become the most recent trend. Data generated by simple machines can provide useful information as part of digital manufacturing chains.

The Delta Touch/Text Panel HMI with Built-in PLC TP Series features a simple system configuration and is compact in size with no additional space or wiring required to achieve machine-to-machine connections in factories. In addition, the TP Series successfully replaces traditional manpower for data monitoring and it effectively executes repetitive mechanical operations. The TP Series adopts a robust design and maintains stable functionality with a low malfunction rate for outdoors and harsh working environments.

The TP Series can integrate data collected from various sensors and transfer the data to the cloud. Customers can fulfill remote factory management without checking the onsite operating status. Providing simple, durable and high-stability functions, the Delta Touch/Text Panel HMI with Built-in PLC TP Series is your best choice for control applications.



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【Products and Features】

The Delta Touch/Text Panel HMI with Built-in PLC TP Series adopts display and control functions, and aims to provide OEM customers with stable and reliable solutions. As market-oriented control products, customers can opt for the TP Series products with different text-lines or built-in I/O based on their demand to fulfull various industrial applications.

The TP Series incudes two types of models: One is the Touch/Text Panel HMI with Built-in PLC TP70P/04P Series. It adopts text or touch panels for selection, as well as simple logic control that stably programs highly repetitive machanical processes. Matched with other industrial automated products such as inverters or smart sensors, the TP Series collects a variety of data including temperature, humidity, electric current, pressure, carbon dioxide, and even counting, to achieve constant environment monitoring. Another model is the Text Panel HMI TP08G/04G Series, which mainly offers robust mechanical control panels for customers. Both models are industrial graded products with high-durability and high-reliability, and can stably operate in harsh environments.

The Delta Touch/Text Panel HMI with Built-in PLC TP Series features:

- **IP65, NEMA4 Standards**
  The TP Series is has IP65 and NEMA4 certifications for dust and water resistance, and can be used in indoor/outdoor environments.

- **CE, UL Certified**
  All the TP Series products have acquired CE and UL certification for reliable and safe quality.

- **Matched with industrial routers for cloud integration**
  The TP Series supports various industrial communication protocols, and can transmit data collected from onsite equipment to the cloud to achieve remote factory management

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【Touch/Text Panel HMI with Built-in PLC TP70P/04P Series】

4-Line Text Panel HMI with Built-in PLC

TP04P



- Adopts the core of the DVP-SS2 Series PLC: program capacity: 8 k steps / D device: 5k words
- Provides 2 sets of 10 kHz high-speed pulse input
- 4.1" STN-LCD
- Provides 0 ~ 9 numeric keys with user-defined function
- Built-in USB port for program upload/download
- Built-in RS-485 port*2
- Supports MODBUS ASCII/RTU modes
- User-defined boot screen available
- Built-in real time clock (RTC)
- Digital and analog I/O terminals available

Dimensions	4.1" (101.8 × 35.24 mm)
Resolution	192 × 64
Display Color	Monochrome
Flash Memory	1 M bytes
Function Key	17 function keys
Password	Available
Recipe Function	Not available
RTC	Available
Serial COM Port	2 sets for RS-485
Editing Software	TPEditor

7-Inch Touch Panel HMI with Built-in PLC

TP70P



- Adopts the core of the DVP-SS2 Series PLC: program capacity: 4 k steps / D device: 5k words
- Provides 2 sets of 10 kHz high-speed pulse input
- 7" TFT-LCD
- Touch screen
- Built-in USB port for program upload / download
- Built-in RS-485 port*2
- Supports MODBUS ASCII / RTU modes
- Built-in real time clock (RTC)
- Digital and analog I/O terminals available

Dimensions	7" (154 × 85 mm)
Resolution	800 × 480
Display Color	65,535 colors
Flash Memory	64 M bytes
Function Key	Not available
Password	Available
Recipe Function	Not available
RTC	Available
Serial COM Port	2 sets of RS-485
Editing Software	TPEditor

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【Text Panel HMI TP08G/04G Series】

4-Line Text Panel HMI

TP04G-AL-C

TP04G-AL2



- 4.1" STN-LCD
- User-defined function keys available
- Supports RS-232 / RS-422 / RS-485 ports (TP04G-AL2)
- Password protection function available
- User-defined boot screen available
- Built-in real time clock (RTC)

Dimensions	4.1" (101.8 × 35.24 mm)
Resolution	192 × 64
Display Color	Monochrome
Flash Memory	256k bytes
Function Key	10 function keys
Password	Available
Recipe Function	Not available
RTC	Available
Serial COM Port	RS-232 & RS-422/485
Editing Software	TPEditor

4-Line Text Panel HMI

TP04G-BL-C



- 4.1" STN-LCD
- 0 ~ 9 numeric keys and user-defined function available
- Built-in RS-232 and RS-422 / RS-485 ports
- Supports MODBUS ASCII / RTU modes
- Password protection function available
- User-defined boot screen available
- Built-in real time clock (RTC)

Dimensions	4.1" (101.8 × 35.24 mm)
Resolution	192 × 64
Display Color	Monochrome
Flash Memory	256k bytes
Function Key	17 function keys
Password	Available
Recipe Function	Not available
RTC	Available
Serial COM Port	RS-232 & RS-422/485
Editing Software	TPEditor

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8-Line Text Panel HMI

TP08G-BT2

- 3.8" STN-LCD
- Resolution: 240 x 128 dots
- Built-in 1,024KB flash memory
- 24 user-defined function keys
- Built-in RS-232 and RS-422 / RS-485 ports
- Supports recipes and macro functions



Dimensions	3.8" (83 x 41 mm)
Resolution	240 × 128
Display Color	Monochrome
Flash Memory	1 M bytes
Function Key	24 function keys
Password	Available
Recipe Function	Available
RTC	Available
Serial COM Port	RS-232 & RS-422/485
Editing Software	TPEditor

【Applications】

Intelligent control systems for aquaculture, steel sleeve tapping machines, air compressors, sealing machines, plant factories, coating equipment, control systems in general, refrigerating equipment, air cleaners, and more

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