FP-e

c(UL)us CE RoHS compliance

| Operation speed: 900 ns | Maximum I/O points: 14 points / 12 points + Thermocouple input | With display | Panel mounted type |

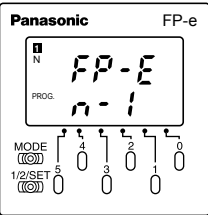## Panel-mount type all-in-one controller - Combination PLC and display

Features

● **3-color, 5-character and 2-line Display**
● **Front operation switch**
● **Equivalent to FP0-C14 intelligence of small PLCs**
● **Easy programming using Wizard**
● **Smooth debug with R and I modes**
● **Panel mounted type (IP66)**

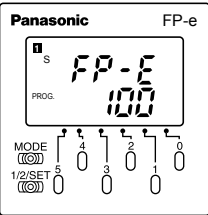*The FP-e will be discontinued at the end of September, 2019.

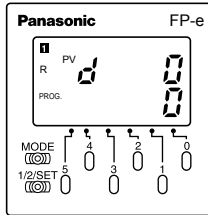## DISPLAY MODES AND FUNCTIONS

1 N mode (Normal mode)

Displays any characters and numerical values, and numerical data can be changed.
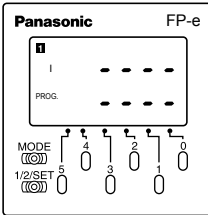
2 S mode (Switch mode)

Can also display characters and numerical values. Operation switches can be used for external input.

3 R mode (Register mode)

Operation memory in the controller can be monitored and its data can be changed.

4 I mode (I/O monitor mode)

I/O status (X and Y) in the controller can be monitored.

SPECIFICATIONS

■ Performance specifications

Item	Model	AFPE224300 Basic type (RS232C)	AFPE224302 Basic type (RS485)	AFPE224305 Calendar timer type (RS232C)	AFPE214325 Thermocouple input type (RS232C)	AFPE214322 Thermocouple input type (RS485)
Number of controllable I/O points	Control unit	14 points [Input: 8, Output: 6 (Transistor NPN: 5 / Relay: 1)]			12 points [Input: 6, Output: 6 (Transistor NPN: 5 / Relay: 1)]	
	Front switch input	8 points				
Program memory	Built-in memory	Built-in EEP-ROM				
Program capacity		2,720 steps				
Operation speed		0.9 µs/step (for basic instruction)				
Clock / calendar function		Not available		Year, month, day, hour, minute, second and day of week (However, this can only be used when a battery has been installed.)	Not available	
Battery life		Not available		220 days or more (actual usage value: 870 days approx. (25 °C 77 °F), Periodic replacement interval: 1 year (Value applies when no power is supplied at all.)	Not available	
Pulse catch input		6 points in total (X0 and X1: 50 µs, X2 to X5: 100 µs)				
Interrupt input						
COM. port		RS232C	RS485	RS232C	RS232C	RS485
Periodical interrupt		0.5 ms to 30 sec.				
Constant scan		Available				
Password		Available				
Special functions	High-speed counter function * The combination of 1-phase × 2 channels and 2-phase × 1 channel is also possible for the high-speed counter.	Counter mode: Addition / subtraction (1-phase) Input points: 4 channels max.				
		Maximum counting speed: 10 kHz (total of 4 channels)			Maximum counting speed: 5 kHz	
		Counter mode: 2-phase / individual / direction decision (2-phase) Input points: 2 channels max.				
		Maximum counting speed: 2 kHz (total of 2 channels)			Maximum counting speed: 1 kHz	
	Pulse output function	Output points	2 independent points (Y0 and Y1) (No interpolation function)			
		Output frequency	40 Hz to 10 kHz (Y0 or Y1: 1 point), 40 Hz to 5 kHz (Y0 and Y1: 2 points)		40 Hz to 5 kHz (1 point), 40 Hz to 2.5 kHz (2 points)	
	PWM output function	Output points	2 points (Y0 and Y1)			
		Output frequency	Frequency: 0.15 Hz to 1 kHz, Duty: 0.1 % to 99.9 %			