



AFP0RA42 | FP0R Intelligent units



※Photo may vary from actual product.

Product Number	AFP0RA42
Part Number	AFP0RA42
Product	FP0R Analog I/O unit
Product name	FP0R Intelligent units

Spec Detail

As of May 29, 2021

Specifications and design of the products are subject to change without notice for the product improvement.

Item		Specifications
Product Number	AFP0RA42	
Part Number	AFP0RA42	
[[INPUT SPECIFICATIONS]]Number of input / output channels	4 / 2	
[[INPUT SPECIFICATIONS]]Input range (digital input range) : Voltage	-10 to +10 V 14 bits (-8,000 to +8,000) -5 to +5 V 14 bits (-8,000 to +8,000) 0 to +10 V 14 bits (0 to +16,000) 0 to +5 V 14 bits (0 to +16,000)	
[[INPUT SPECIFICATIONS]]Input range (digital input range) : Current	0 to 20 mA 14 bits (0 to +16,000)	
[[INPUT SPECIFICATIONS]]Absolute maximum input:Voltage	±15 V	
[[INPUT SPECIFICATIONS]]Absolute maximum input:Current	±30 mA	
[[INPUT SPECIFICATIONS]]Input impedance:Voltage	1 MΩ approx.	
[[INPUT SPECIFICATIONS]]Input impedance:Current	250 Ω approx.	
[[INPUT SPECIFICATIONS]]Max. resolution	14 bits (1/16,000)	
[[INPUT SPECIFICATIONS]]Overall accuracy : Voltage	±0.2 % F.S. or less (at +25 °C +77 °F) ±0.4 % F.S. or less (at 0 to +55 °C +32 to +131 °F)	
[[INPUT SPECIFICATIONS]]Overall accuracy : Current	±0.3 % F.S. or less (at +25 °C +77 °F) ±0.6 % F.S. or less (at 0 to +55 °C +32 to +131 °F)	
[[INPUT SPECIFICATIONS]]Conversion speed	2 ms/all channels	
[[INPUT SPECIFICATIONS]]Other functions	Averaging processing (moving, number of times) Compatibility function for existing programs (12 bits)	
[[INPUT SPECIFICATIONS]]Insulation method : Between input terminals and internal circuit	Photocoupler and isolated DC/DC converter	
[[INPUT SPECIFICATIONS]]Insulation method : Between channels	Not insulated	
[[OUTPUT SPECIFICATIONS]]Number of input / output channels	4 / 2	

[[OUTPUT SPECIFICATIONS]]Output range (analog output setting range) : Voltage	-10 to +10 V 14 bits (-8,000 to +8,000)
	-5 to +5 V 14 bits (-8,000 to +8,000)
	0 to +10 V 14 bits (0 to +16,000)
	0 to +5 V 14 bits (0 to +16,000)
[[OUTPUT SPECIFICATIONS]]Output range (analog output setting range) : Current	0 to 20mA 14 bits (0 to +16,000)
	4 to 20mA 14 bits (0 to +16,000)
[[OUTPUT SPECIFICATIONS]]Output impedance : Voltage	0.5 Ω or less
[[OUTPUT SPECIFICATIONS]]Max. output current : Voltage	±10 mA
[[OUTPUT SPECIFICATIONS]]Permissible output load resistance : Current	500 Ω or less
[[OUTPUT SPECIFICATIONS]]Max. resolution	14 bits (1/16,000)
[[OUTPUT SPECIFICATIONS]]Overall accuracy : Voltage	±0.2 % F.S. or less (at +25 °C +77 °F)
	±0.4 % F.S. or less (at 0 to +55 °C +32 to +131 °F)
[[OUTPUT SPECIFICATIONS]]Overall accuracy : Current	±0.3 % F.S. or less (at +25 °C +77 °F)
	±0.6 % F.S. or less (at 0 to +55 °C +32 to +131 °F)
[[OUTPUT SPECIFICATIONS]]Conversion speed	500 μs/all channels
[[OUTPUT SPECIFICATIONS]]Other functions	Compatibility function for existing programs (12 bits)
[[OUTPUT SPECIFICATIONS]]Insulation method : Between the output terminals and internal circuit	Photocoupler and isolated DC/DC converter
[[OUTPUT SPECIFICATIONS]]Insulation method : Between channels	Not insulated