

UR-DS Series

FASTUS IO-Link Hub, Analog I/O

UR-DS4AD

UR-DS4DA

Item		Specifications	
Unit		IO-Link Hub, Analog I/O	
Model code		UR-DS4AD	UR-DS4DA
Number of channels		1 (Use either spring clamp terminal blocks or e-CON sockets)	
Interface	IO-Link	Version	1.1
		Master/Device	Operates as device
		Transmission speed	COM3 (230.4 kbps)
		Process input data	8 bytes
		Process output data	1 byte
		Minimum cycle time	0.7 ms
		Cable length	20 m or less
Number of channels		4 (spring clamp terminal)	
I/O terminal	Analog input	Polarity	Voltage (0 to 10 V, -10 to 10 V, 0 to 5 V, 1 to 5V) Current (0 to 20 mA, 4 to 20 mA) Selectable for all channels
		Maximum input voltage	±11 V
		Maximum input current	24 mA
		Voltage input equivalent impedance	250.5 k ohm
		Current input equivalent impedance	246 k ohm
		Voltage accuracy	±0.30 % of F.S. (at ambient temperature of 25 °C)*1
		Current accuracy	±0.30 % of F.S. (at ambient temperature of 25 °C)
		Input resolution	16 bits
		Dielectric withstanding voltage	500 VAC for one minute between analog input batch and IO-Link batch
		Insulation resistance	10 M ohm or higher between analog input batch and IO-Link batch at 500 VDC
		Inter-channel isolation	None (common)
		Insulation method	Photocoupler insulation
		Polarity	Voltage (0 to 10 V, -10 to 10 V, 0 to 5 V) Current (0 to 20 mA) Selectable for all channels
		Maximum output voltage	±11 V
		Maximum output current	24 mA
		Voltage output equivalent impedance	0.3 ohm
I/O terminal	Analog output	Voltage accuracy	±0.1 % of F.S. (at ambient temperature of 25 °C)*1
		Current accuracy	±0.2 % of F.S. (at ambient temperature of 25 °C)
		Output resolution	16 bits
		Dielectric withstanding voltage	500 VAC for one minute between analog output batch and IO-Link batch
		Insulation resistance	10 M ohm or higher between analog output batch and IO-Link batch at 500 VDC
		Inter-channel isolation	None (common)
		Insulation method	Photocoupler insulation

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Item		Specifications	
Unit	IO-Link Hub, Analog I/O		
Model code	UR-DS4AD	UR-DS4DA	
Power	Power supply voltage	24 VDC $\pm 15\%$ (SELV and LIM power supplies or Class 2 power supplies)*2	
	Current consumption	50 mA max. (at 24 VDC)	150 mA max. (at 24 VDC)
Size	85 \times 63 \times 39.9 mm (W \times H \times D)		
Weight	Approx. 105 g (including terminal blocks, when not wired)	Approx. 95 g (including terminal blocks, when not wired)	
Environmental resistance	Operation temperature/humidity	0 to +55 °C/5 to 95 % RH (no freezing and no condensation)	
	Storage temperature/humidity	-25 to +75 °C/5 to 95 % RH (no freezing and no condensation)	
	Vibration resistance	IEC 61131-2 compliant	
	Shock resistance	IEC 61131-2 compliant	
	Atmosphere	No corrosive gas	
	Operating altitude	0 to 2000 m	
	Installation location	In door use	
	Degree of protection	IP20	
Overvoltage category		II or less	
Pollution degree		2 or less	
Applicable regulations	CE marking	EMC	EMC Directive (2014/30/EU)
		Environment	RoHS Directive (2011/65/EU)
	China RoHS	Environment	Regulation 32
Applicable standard		EN61131-2	

*1. Accuracy when the type of analog input is set to 0 to 10 V or -10 to 10 V. Full scale is calculated as 10 V even when 0 to 5 V or 1 to 5 V is set.

*2. Use a Class 2 power supply or a power supply compliant with SELV (Safety Extra-Low Voltage) circuit and LIM (Limited Energy Circuit) circuit standards.

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78056-01-001-2401