FASTUS

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
Interface	Number of channels		1 (Use either spring clamp terminal blocks or e-CON sockets)	
	IO-Link	Version	1.1	
		Master/Device	Operates as device	
		Transmission speed	COM3 (230.4 kbps)	
		Process input data	8 bytes	0 bytes
		Process output data	1 byte	9 bytes
		Minimum cycle time	0.7 ms	
		Cable length	20 m or less	
I/O terminal	Number of channels		4 (spring clamp 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	
	Analog output	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
		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

Item			Specifications	
Unit			IO-Link Hub, Analog I/O	
Model code			UR-DS4AD	UR-DS4DA
Power	Power supply voltage		24 VDC ±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 × 63 × 39.9 mm (W × H × 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 (Linited Energy Ciruit) circuit standards.