

UR-DS Series

FASTUS IO-Link hub

UR-DS4AD

Got questions on IO-LINK?
Need help with your application?
Contact Ramco Innovations today!

Item			Specifications
Unit			IO-Link Analog I/O hub
Model code			UR-DS4AD
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
		Communication speed	COM3 (230.4 kbps)
		Process input data	8 bytes
		Process output data	1 byte
		Minimum cycle time	0.7 ms
		Cable length	Maximum 20 m
I/O channel	Number of channels		4 (spring clamp terminal)
	Analog input	Type of input	Voltage/Current (selectable per channel)
		Maximum input voltage	±11 V
		Maximum input current	24 mA
		Voltage input equivalent impedance	250.5 k ohm
		Current input equivalent impedance	246 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

Item			Specifications
Power supply	Power supply voltage		24 VDC ±155 % (SELV and LIM power supplies or Class 2 power supplies)*1
	Current consumption		50 mA max. (at 24 DCV)
Size			85 × 63 × 39.9 mm (W × H × D)
Weight			Approx. 105 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
Measurement category			II or lower
Pollution degree			2 or lower
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 (Zone A)

*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.