



ERI4374-0002 | 2-channel analog input + 2-channel analog output ± 10 V or 0/4...20 mA, parameterisable, 16 bit

The ERI4374 IO-Link box combines two analog inputs and two analog outputs which can be individually parameterised, so that they process/generate signals either in the $-10 \dots +10$ V or the 0/4...20 mA range. The resolution for the current and voltage signals is 16 bit (signed).

The voltage or output current is supplied to the process level with a resolution of 15 bit (default), and is electrically isolated. Ground potential for the two output channels is common with the 24 V DC supply.

The IO-Link box modules with zinc die-cast housing are ready for use in harsh industrial and process environments. With the fully sealed design and metal surfaces the ERI series is ideal for applications requiring enhanced load capacity and protection against weld spatter, for example.

Technical data	ERI4374-0002
Communication	IO-Link
Data transfer rates	230.4 kbaud (COM 3)
Specification version	IO-Link V1.1, Class B
Number of outputs	2
Number of inputs	2
Input/output connections	M12, screw type
Interfaces	1 x M12 plug, A-coded
Signal type	$-10/0 \dots +10$ V 0/4...20 mA
Load	$> 5 \text{ k}\Omega$ $< 500 \Omega$
Internal resistance	input: $> 200 \text{ k}\Omega$ typ. 85Ω + diode voltage
Resolution	16 bit (incl. sign)
Input filter limit frequency	5 kHz
Conversion time	input: $\sim 100 \mu\text{s}$, output: $\sim 40 \mu\text{s}$
Measuring error	$< 0.1 \%$ (relative to full scale value)
Bit width in the process image	4 x 16 bit AO output
Electrical isolation	L+/2L+: yes
Current consumption	typ. 100 mA from L+
Special features	combi module, current or voltage parameterisable per channel
Operating/storage temperature	$-25 \dots +60 \text{ }^\circ\text{C}$ / $-40 \dots +85 \text{ }^\circ\text{C}$
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 65/66/67 (conforms to EN 60529)/variable
Approvals	CE, UL

Related products	
EP6228	EtherCAT Box, industrial housing, 8-channel IO-Link master, IP 67
EP6224	EtherCAT Box, industrial housing, 4-channel IO-Link master, IP 67
EL6224	EtherCAT Terminal, IO-Link master, IP 20
KL6224	Bus Terminal, IO-Link master, IP 20