



## ER4174-0002 | 4-channel analog output $\pm 10$ V or 0/4...20 mA, parameterisable, 16 bit

The ER4174 EtherCAT Box has four analog outputs which can be individually parameterised, so that they generate signals either in the  $-10 \dots +10$  V or the 0/4...20 mA range. The voltage or output current is supplied to the process level with a resolution of 15 bit (default), and is electrically isolated. The output scaling can be changed if required.

Ground potential for the four output channels is common with the 24 V DC supply. The analog actuators are supplied from the load voltage (freely selectable up to 30 V DC). The applied load voltage is available for actuator supply of further EtherCAT Box modules.

The EtherCAT 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 ER series is ideal for applications requiring enhanced load capacity and protection against weld spatter, for example.

Technical data	ER4174-0002
Number of outputs	4
Output connections	M12, screw type
Protocol	EtherCAT
Bus interface	2 x M8 socket, shielded, screw type
Signal type	$-10/0 \dots +10$ V   0/4...20 mA
Nominal voltage	24 V DC (-15 %/+20 %)
Load	$> 5 \text{ k}\Omega$   $< 500 \Omega$
Resolution	16 bit
Conversion time	$\sim 40 \mu\text{s}$
Measuring error	$< 0.1 \%$ (relative to full scale value)
Actuator supply	from the auxiliary voltage $U_p$
Power supply connection	feed: 1 x M8 male socket, 4-pin; downstream connection: 1 x M8 female socket, 4-pin
Bit width in the process image	4 x 16 bit AO output
Electrical isolation	500 V
Current consumption from $U_s$	120 mA
Special features	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 in preparation

Related products	
EP4174	EtherCAT Box, industrial housing, 4-channel analog output $\pm 10$ V or 0/4...20 mA, parameterisable, 16 bit