



EP4374-0002 | 2-channel analog input + 2-channel analog output ± 10 V or 0/4...20 mA, parameterisable, 16 bit

The EP4374 EtherCAT 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.

Technical data	EP4374-0002
Number of outputs	2
Number of inputs	2
Input/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	output: > 5 k Ω < 500 Ω
Internal resistance	input: > 200 k Ω typ. 85 Ω + diode voltage
Resolution	16 bit
Conversion time	input: ~ 100 μ s, output: ~ 40 μ s
Measuring error	input: < 0.3 %, output: < 0.1 % (each 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	combi module, current or voltage parameterisable per channel
Weight	approx. 165 g
Operating/storage temperature	$-25 \dots +60$ °C/ $-40 \dots +85$ °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, Ex

Accessories	
ZK1090-3xxx-xxxx	Cables for EtherCAT signal in- and -output
ZK2000-5xxx/71xx-xxxx	Sensor cable 5-wire unshielded/shielded
ZK2020-3xxx-xxxx	Cables for M8 power supply