



## EL4031 | 1-channel analog output terminal -10...+10 V, 12 bit

The EL4031 analog output terminal generates signals in the range between -10 and +10 V. The voltage is supplied to the process level with a resolution of 12 bits and is electrically isolated. The output channels of the EtherCAT Terminal have a common ground potential. The EL4031 is the single-channel variant which when combined with the EL95xx is particularly suitable for signals with electrically isolated ground potentials. The output stages are powered by the 24 V supply. The signal state of the EtherCAT Terminal is indicated by light emitting diodes.

Technical data	EL4031   ES4031
Connection technology	2-wire, single-ended
Number of outputs	1
Power supply	24 V DC via power contacts
Signal voltage	-10...+10 V
Distributed clocks	yes
Distributed clock precision	<< 1 $\mu$ s
Load	> 5 k $\Omega$ (short-circuit-proof)
Output error	< 0.1 % (relative to end value)
Resolution	12 bit
Electrical isolation	500 V (E-bus/signal voltage)
Conversion time	~ 100 $\mu$ s
Current consumption power contacts	typ. 25 mA
Current consumption E-bus	typ. 140 mA
Bit width in the process image	1 x 16 bit AO output
Special features	Optional watchdog: user-specific output value with ramp; user synchronisation can be activated.
Weight	approx. 55 g
Operating/storage temperature	-25...+60 °C/-40...+85 °C
Relative humidity	95 %, no condensation
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 20/variable
Pluggable wiring	for all ESxxxx terminals
Approvals	CE, UL, Ex