



## EL3602 | 2-channel analog input terminal $\pm 10\text{ V}$ , $\pm 5\text{ V}$ , $\pm 2.5\text{ V}$ , $\pm 1.25\text{ V}$ , differential input, 24 bit

The EL3602 analog input terminal handles signals in the ranges  $\pm 10\text{ V}$ ,  $\pm 5\text{ V}$ ,  $\pm 2.5\text{ V}$  and  $\pm 1.25\text{ V}$ . The voltage is digitised to a resolution of 24 bits, and is transmitted, electrically isolated, to the higher-level automation device. The input channels of the EtherCAT Terminal have differential inputs and possess a common, internal ground potential. The signal state of the EtherCAT Terminal is indicated by light emitting diodes.

Technical data	EL3602   ES3602
Number of inputs	2 (differential)
Power supply	via the E-bus
Technology	differential input
Signal voltage	$-10 \dots +10\text{ V}$ , $-5 \dots +5\text{ V}$ , $-2.5 \dots +2.5\text{ V}$ , $-1.25 \dots +1.25\text{ V}$ (parameterisable)
Oversampling factor	–
Distributed clocks	–
Distributed clock precision	–
Internal resistance	$> 200\text{ k}\Omega$
Input filter limit frequency	3 kHz
Common-mode voltage $U_{CM}$	35 V max.
Resolution	24 bit (incl. sign)
Conversion time	20 ms default setting, 1...400 ms configurable
Input signal bandwidth	–
Measuring error	$< \pm 0.01\%$ at 25 °C, 50 Hz filter (relative to full scale value)
Electrical isolation	500 V (E-bus/signal voltage)
Current consumption power contacts	–
Current consumption E-bus	typ. 190 mA
Crosstalk attenuation	$> 60\text{ dB}$
Special features	various filter times, limit value monitoring, high precision
Weight	approx. 60 g
Operating/storage temperature	$-25 \dots +60\text{ °C}$ / $-40 \dots +85\text{ °C}$
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

Related products	
<b>EL3602-0002</b>	2-channel analog input terminal, $\pm 200$ mV, differential input, 24 bit
<b>EL3602-0010</b>	signal voltage $-75 \dots +75$ mV, measuring error $< \pm 0.05$ % at 25 °C (relative to full scale value, 50 Hz filter)
<b>EL3602-0020</b>	2-channel analog input terminal $\pm 10$ V, $\pm 5$ V, $\pm 2.5$ V, $\pm 1.25$ V, differential input, 24 bit, with calibration certificate