



## KL4001, KL4002 | 1-, 2-channel analog output terminals 0...10 V

The KL4001 and KL4002 analog output terminals generate signals in the range from 0 to 10 V. The voltage is supplied to the process level with a resolution of 12 bits and is electrically isolated. The output channels of a Bus Terminal have a common ground potential. The KL4001 is the single-channel variant and is particularly suitable for signals with electrically isolated ground potentials. The KL4002 version combines two channels in one housing. The run LEDs give an indication of the data exchange with the Bus Coupler.

Technical data	KL4001   KS4001	KL4002   KS4002
Technology	–	single-ended
Number of outputs	1	2
Power supply	via the K-bus	
Signal voltage	0...10 V	
Load	> 5 kΩ (short-circuit-proof)	
Output error	< ±0.1 % (relative to end value)	
Resolution	12 bit	
Conversion time	~ 1.5 ms	
Electrical isolation	500 V (K-bus/signal voltage)	
Current consumption power contacts	– (no power contacts)	
Current consumpt. K-bus	typ. 75 mA	
Bit width in the process image	output: 1 x 16 bit data (1 x 8 bit control/status optional)	output: 2 x 16 bit data (2 x 8 bit control/status optional)
Configuration	no address or configuration setting	
Special features	potential-free output	–
Weight	approx. 85 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 KSxxxx Bus Terminals	
Approvals	CE, UL, Ex	

Special terminals	
KL4002-0010	Siemens S5 format
KL4002-0011	fast µP, scan time approx. 0.15 ms
KL4002-0050	Siemens S7 format