



## KL4424, KL4428 | 4-, 8-channel analog output terminals 4...20 mA

The KL4424 and KL4428 analog output terminals generate signals in the range between 4 to 20 mA. The power is supplied to the process level with a resolution of 12 bits and is electrically isolated. The output stage is powered by the 24 V supply. In the KL4424 Bus Terminal, the four outputs are 2-wire versions. The KL4428 variant combines eight channels in one housing and is particularly suitable for space-saving installation in control cabinets. The use of single conductor connection technology enables the connection of multi-channel actuator technology with minimum space requirements.

The Bus Terminals have a common ground potential. The power contacts are connected through. The reference ground of the outputs is the 0 V power contact. The LEDs indicate the data exchange with the Bus Coupler.

Technical data	KL4424   KS4424	KL4428   KS4428
Technology	single-ended	
Number of outputs	4	8
Power supply	24 V DC via power contacts (alternative 15 V DC with power supply terminal KL9515)	
Signal current	4...20 mA	
Load	< 350 Ω (short-circuit-proof)	< 150 Ω (short-circuit-proof)
Output error	< ±0.1 % (relative to end value)	< ±0.2 % (relative to end value)
Resolution	12 bit	
Conversion time	~ 4 ms	~ 8 ms
Electrical isolation	500 V (K-bus/signal voltage)	
Current consumption power contacts	typ. 60 mA + load	
Current consumpt. K-bus	typ. 20 mA	
Bit width in the process image	output: 4 x 16 bit data (4 x 8 bit control/status optional)	output: 8 x 16 bit data (8 x 8 bit control/status optional)
Special features	–	increased packing density
Weight	approx. 75 g	
Operating/storage temperature	0...+55 °C/-25...+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, GL	