



# KL6201 | AS-Interface master terminal



The AS-Interface master terminal is an extended master according to profile M3 and enables the direct connection of AS-Interface slaves. The AS-Interface-compliant interface supports digital and analog slaves, versions 2.0 and 2.1, safety slaves and slaves with Combined Transaction Type 1 (profile S-7.3 and 7.4). Process data exchange, parameterisation and the diagnosis are fieldbus-independent. Together with the different Bus Couplers, the KL6201 represents a universal AS-Interface/fieldbus gateway. Together with the BK3120, the PROFIBUS DP V1 services can be used for communication with the KL6201.

| Technical data                     | KL6201   KS6201  |
|------------------------------------|--|
| Technology                         | AS-Interface   |
| Number of channels                 | 1  |
| AS-Interface channels              | 1  |
| Number of slaves                   | 31 for V 2.0, 62 for V 2.1   |
| Specification version              | AS-Interface V 2.0, V 2.1  |
| Slave types                        | digital and analog   |
| Diagnostics                        | power failure, slave failure, parameterisation fault                             |
| AS-Interface address assignment    | via configuration or automatic   |
| Cycle time                         | max. 5 ms (31 devices)   |
| Connection                         | 2 lines via spring force technology  |
| Current consumption K-bus          | typ. 55 mA (K-bus), approx. 60 mA (AS-Interface)                                 |
| Current consumption power contacts | – (no power contacts)  |
| Electrical isolation               | 500 V (AS-Interface/K-bus)   |
| Power contacts                     | no   |
| Bit width in the process image     | selectable: 12 bytes, 22 bytes or 38 bytes, of which 6 bytes parameter interface |
| Configuration                      | via fieldbus parameter interface, DP-V1 or Bus Coupler through KS2000            |
| Weight                             | approx. 55 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   |
| AS-Interface certificate           | yes, ZU-No. 125801   |

| Special terminals |  |
|-------------------|--|
| KL6201-0010       | preset to 22 bytes K-bus interface, supports up to 31 AS-Interface slaves (2 K-bus cycles) |
| KL6201-0011       | preset to 38 bytes K-bus interface, supports up to 62 AS-Interface slaves (4 K-bus cycles) |

|                               |   |
|-------------------------------|---|
| <b>Related products</b>       |   |
| <b>KL6211</b>                 | Bus Terminal, AS-Interface master terminal with power contacts                  |
| <b>System</b>                 |   |
| <b>subsystem</b>              | For further subsystem products please see the <a href="#">system overview</a> . |
| <b>i Product announcement</b> | KL6201: available<br>KS6201: estimated market release on request                |