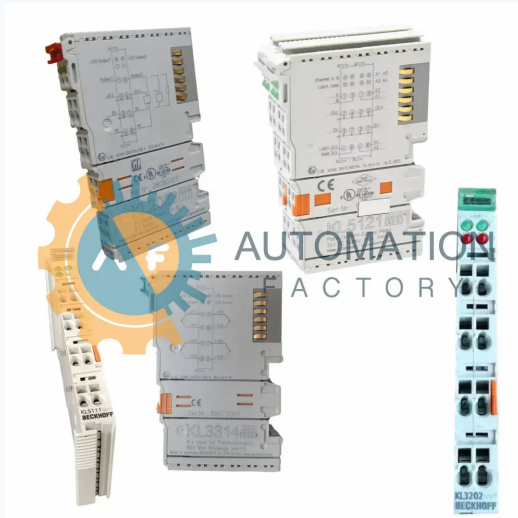


Beckhoff — KL Analog Input Modules

KL6401-0020



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The **KL6401-0020** LonWorks interface module is produced by Beckhoff for the KL Analog Input Modules series. It functions as a fieldbus coupler that transfers LonWorks network data to the internal K-bus, allowing a controller to read and write process variables in real time. The module occupies one terminal width on a DIN rail and connects distributed I/O, temperature sensors, and other analog endpoints to an industrial PC without requiring an external gateway. Its compact format allows it to be installed alongside other bus terminals within a control cabinet. The direct connection between the field network and the K-bus reduces the amount of separate interface equipment required in the enclosure.

The operating electronics receive power from the system bus at **24 VDC**. Average K-bus current consumption is limited to **55 mA**, allowing multiple terminals to share the same power segment without overloading the power supply. Each LonWorks packet is mirrored in the controller memory as a process image, with **36 bytes** available for input data and the same capacity available for output data. A peak channel throughput of **78 kbytes** allows the terminal to process rapidly changing analog variables without creating a communication bottleneck. Field-side communication follows the **FTT-10/LPT** transmission standard, supporting twisted-pair wiring at rates of up to 78 kbit/s. The interface also supports free-topology layouts commonly used in building automation networks.

The application image can contain up to **62 network variables**, giving the CPU direct access to distributed measurements. The terminal also provides **one output object** for sending an actuator command through the network. Its housing snaps onto a **35 mm** DIN mounting rail, allowing it to fit standard industrial control enclosures.

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The enclosure has an **IP20** rating and is intended for installation in a protected control cabinet rather than an exposed machine area. The module supports enhanced mechanical loads for use where vibration or movement may affect cabinet-mounted equipment. Its variable installation position permits horizontal or vertical placement within densely packed enclosures while maintaining normal operation.

Specifications

Approvals:	CE, UL, Ex	Bus Coupler Power Supply:	24 V DC (-15 %/+20 %)	Bus System:	Lightbus
Connection Type:	Bus Terminal system	Current Consumption From E-bus:	Approx. 450 mA	Data Transfer Rate:	78 kbyte
Dimensions (w X H X D):	52 mm x 100 mm x 68 mm	Enhanced Mechanical Load:	Yes	Installation Position:	Variable
Interface:	EtherCAT Terminals to Lightbus	Material:	Plastic housing	Max Network Variables:	62
Mounting:	On DIN rail	Mounting Rail:	35 mm	Number Of Outputs:	1
Permissible Ambient Temperature:	0 °C to +55 °C	Permissible Storage Temperature:	-25 °C to +85 °C	Process Image Input:	36 bytes
Process Image Output:	36 bytes	Protection Class:	IP20	Supply Voltage:	24 VDC
Transmission Standard:	FTT-10/LPT	Typical K-bus Current:	55 mA	Weight:	Approx. 120 g
Last Verified:	10/24/2026 2:41 PM				

Contact Us

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