

KL6781 M-Bus master interface complements energy consumption metering in a space-saving Bus Terminal format

Compact, feature-laden M-Bus solution eliminates special energy monitoring hardware

Gathering energy consumption data is, of course, at the core of modern building automation solutions designed for high energy efficiency. Bus Terminals from Beckhoff enable the measurement of all relevant electrical supply network data directly in a standard, cost-effective I/O system. The KL6781 M-Bus master terminal extends the range of energy measurement terminals: electricity, water, gas or energy meters with M-Bus interfaces can be simply integrated in the "fieldbus-independent" Bus Terminal system, rendering external M-Bus gateways unnecessary.

The KL6781 M-Bus master terminal, in its compact 12 mm housing, enables direct connection of up to 40 M-Bus devices, each with 1.5 mA current consumption. To connect additional devices beyond that limit, users simply install another KL6781 in the Bus Terminal node. The M-Bus master terminal converts the data from the internal terminal bus into M-Bus-compliant values. A total of 24 bytes of data per terminal are available for this purpose.

The TwinCAT PLC M-Bus software library, which is available free of charge from Beckhoff, simplifies the integration of M-Bus devices from numerous manufacturers through predefined profiles.

In addition to building automation, the M-Bus solution can also be used in machine construction and plant engineering applications, where consumption meters with the M-Bus interface can be used for logging load peaks, for example.

The M-Bus terminal extends the Beckhoff all-in-one I/O solution with yet another useful component. With more than 400 different signal types, the Beckhoff Bus Terminal system covers virtually all signal types encountered in building services engineering. It not only supports all common sensors and actuators, but can also integrate all bus systems that are relevant for building services using suitable Bus Coupler types. Subordinate subsystems such as EIB/KNX, LON, DALI, MP-Bus, EnOcean or serial RS232/RS485 connections such as Modbus can be integrated easily via communication Bus Terminals.



Further Information:

www.beckhoff.com/KL6781

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