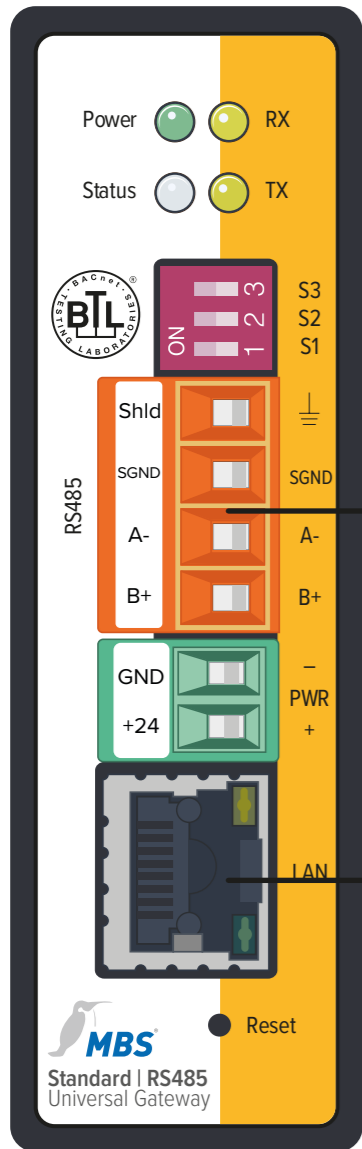


MBS Gateway Functionality

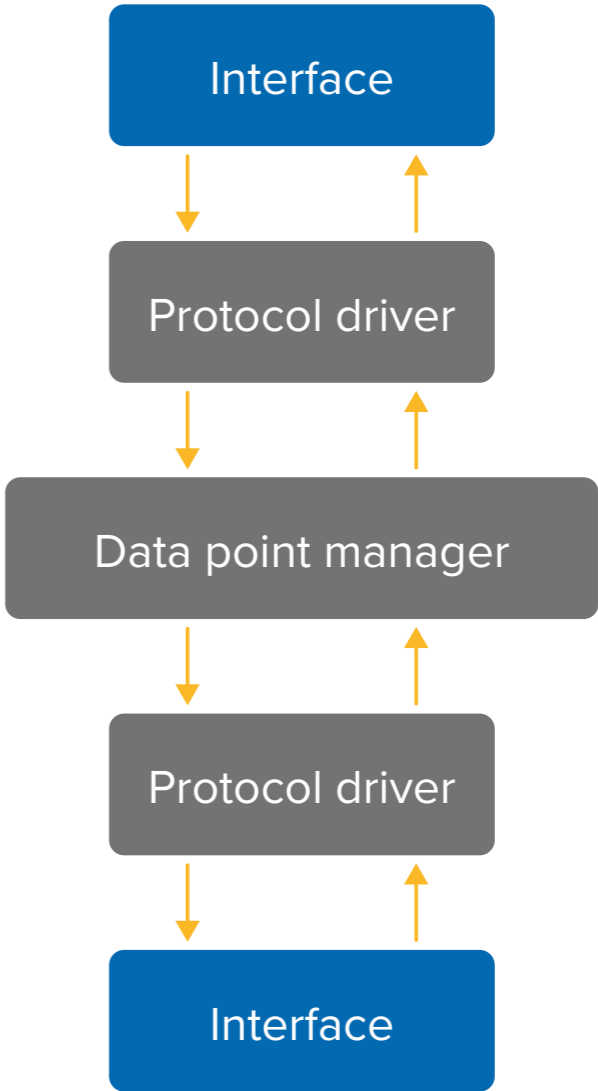
- Protocol drivers receive the telegrams at the interfaces or send them there.
- The protocol drivers send the transmitted values to the central software of the gateway (data point manager).
- This central software of the gateway communicates the transmitted values to the protocol driver of the target protocol

In this way, the development of a protocol driver can be used to communicate with all other protocols that have already been developed.

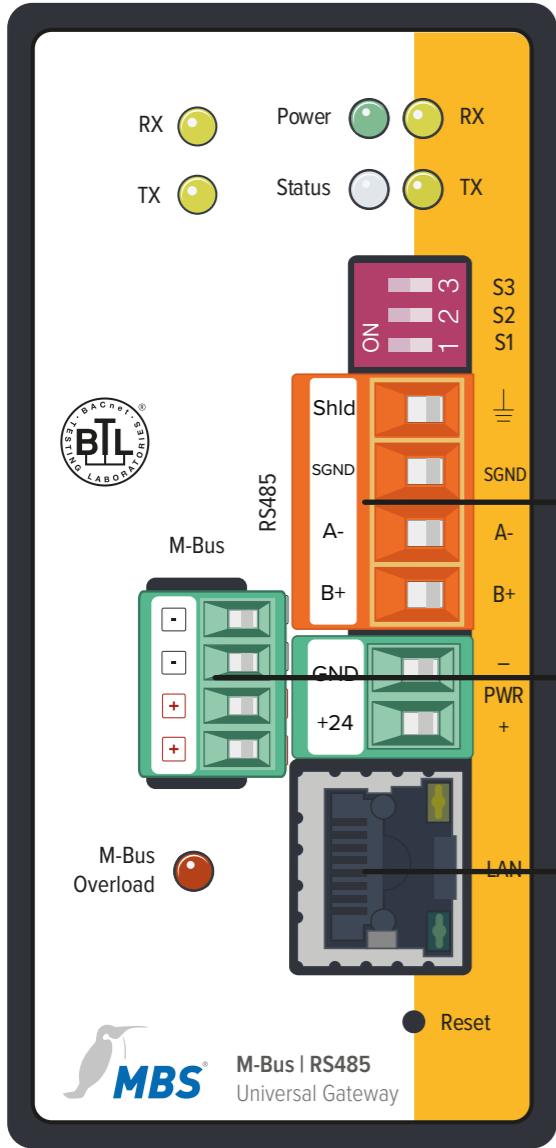


Serial interface

Ethernet interface



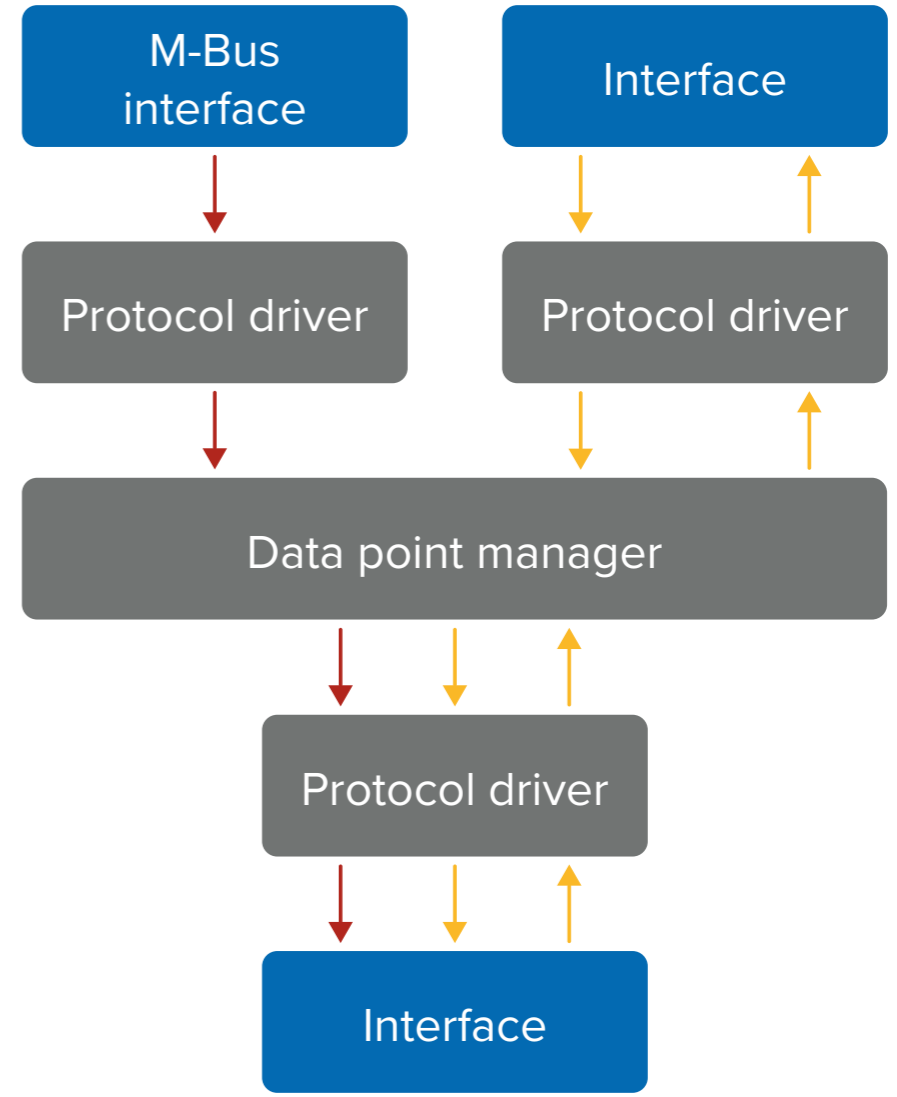
● Software ● Hardware



Serial interface

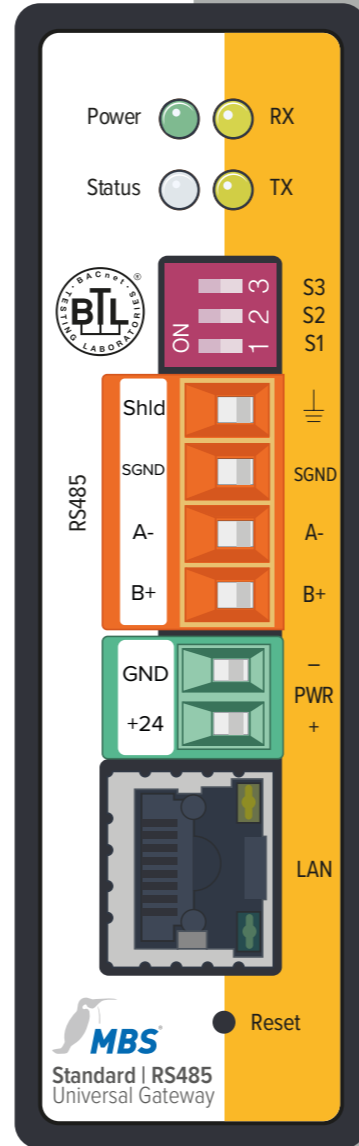
M-Bus interface

Ethernet interface



● Software ● Hardware

Standard Gateway



Communication to serial protocols

BACnet MSTP
MODBUS RTU
ESPA 4.4.4.

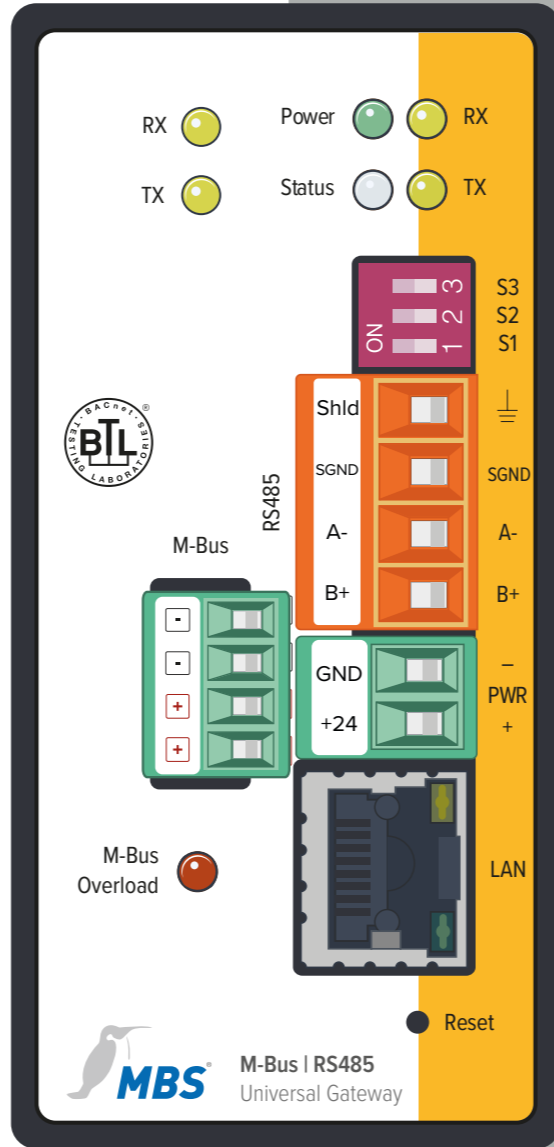


Multiple protocol drivers possible

BACnet IP
IEC 60870-5-104
MODBUS IP
OPC Server DA 2.0
SNMP

M-Bus Gateway

M-Bus for meters
(water quantities, energy quantities, etc.)



RS232 o. RS485

BACnet MSTP
MODBUS RTU
ESPA 4.4.4.



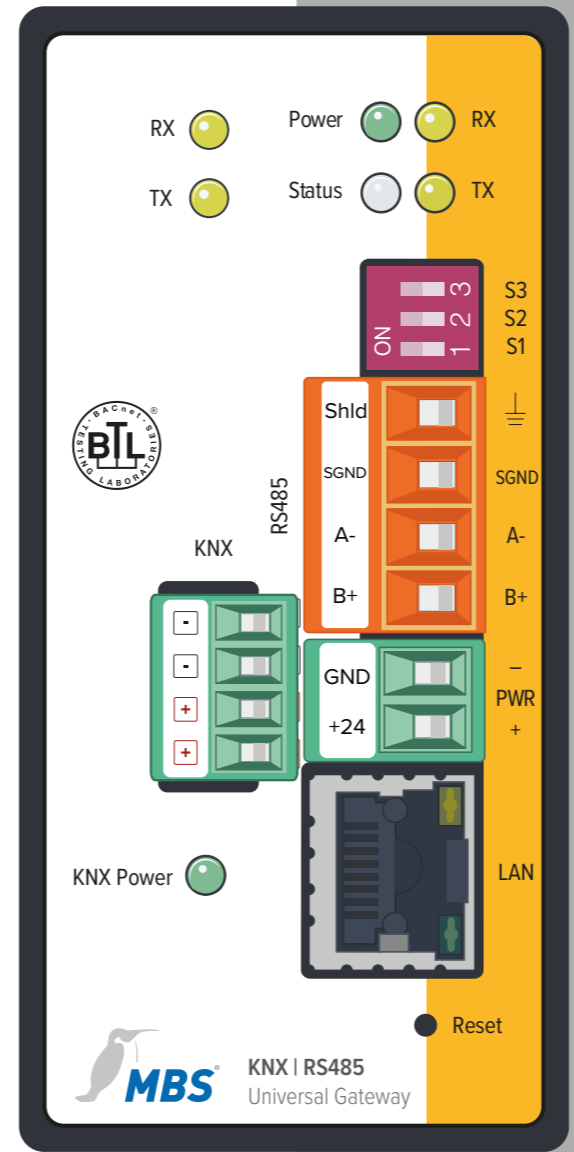
Multiple protocol drivers possible

BACnet IP
IEC 60870-5-104
MODBUS IP
OPC Server DA 2.0
SNMP

KNX / EIB for building automation and control



KNX Gateway



RS232 o. RS485

BACnet MSTP
MODBUS RTU
ESPA 4.4.4.



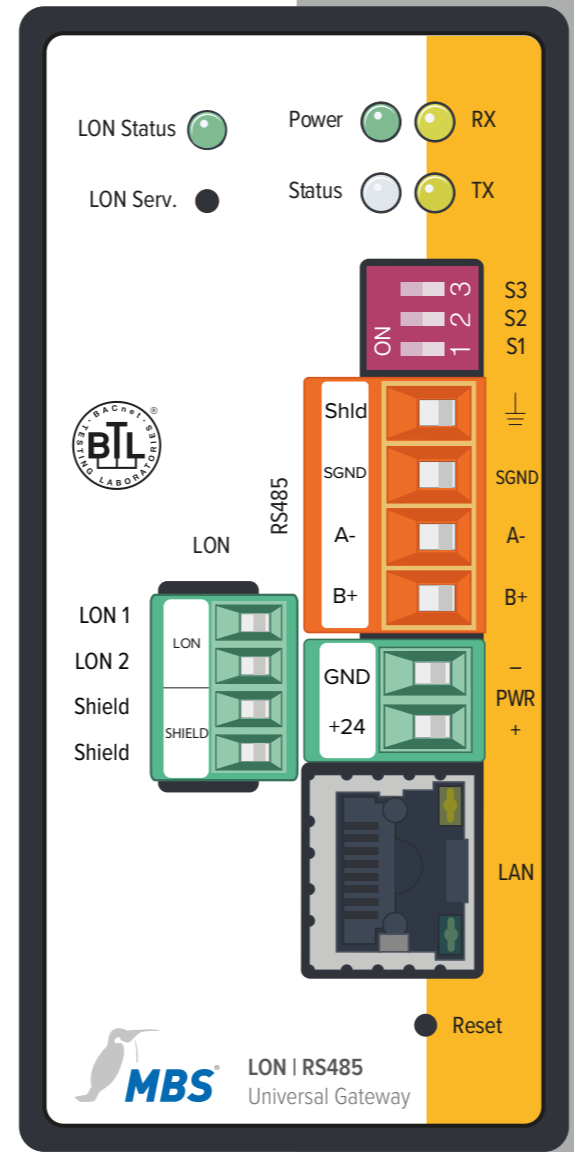
Multiple protocol drivers possible

BACnet IP
IEC 60870-5-104
MODBUS IP
OPC Server DA 2.0
SNMP

LON for building and heating controls



LON Gateway



RS232 o. RS485

BACnet MSTP
MODBUS RTU
ESPA 4.4.4.

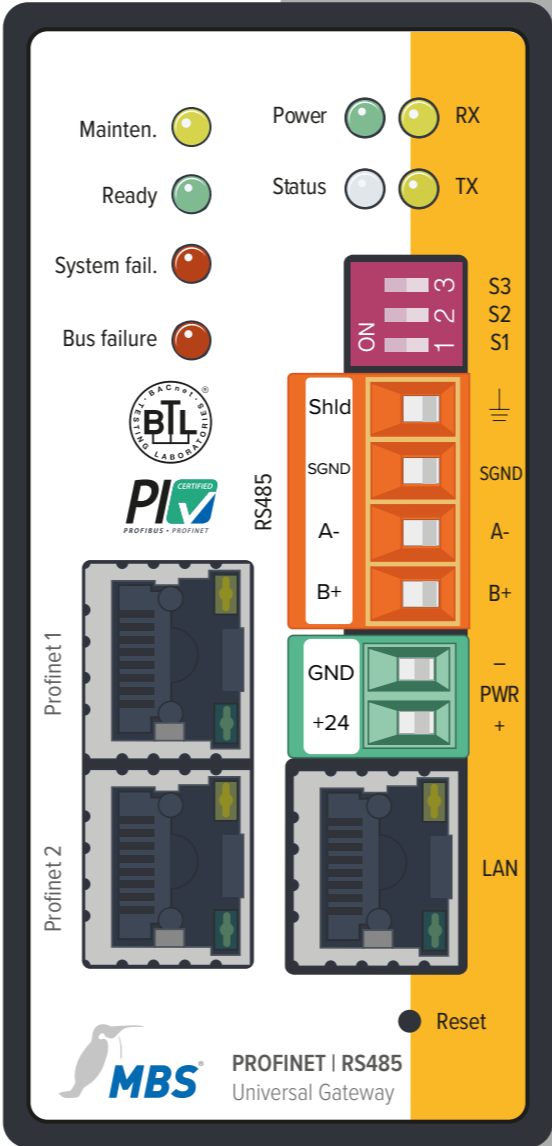


Multiple protocol drivers possible

BACnet IP
IEC 60870-5-104
MODBUS IP
OPC Server DA 2.0
SNMP

PROFINET Gateway

PROFINET for industrial controls



RS232 o. RS485

BACnet MSTP
MODBUS RTU
ESPA 4.4.4.



Multiple protocol drivers possible

BACnet IP
IEC 60870-5-104
MODBUS IP
OPC Server DA 2.0
SNMP

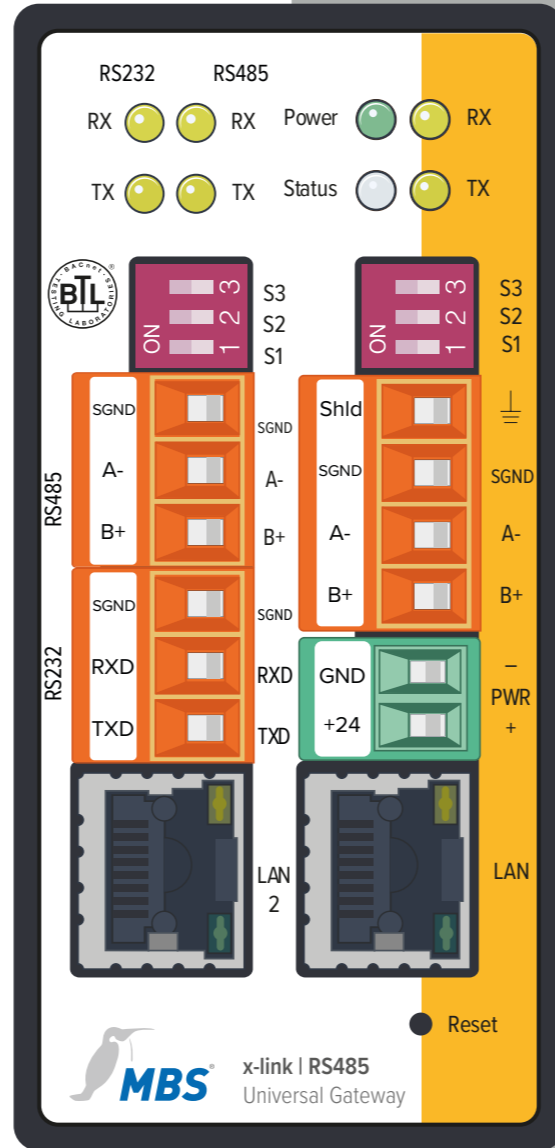
x-Link for diverse connections

BACnet MSTP
MODBUS RTU
ESPA 4.4.4.

BACnet IP
IEC 60870-5-104
MODBUS IP
OPC Server DA 2.0
SNMP



x-link Gateway



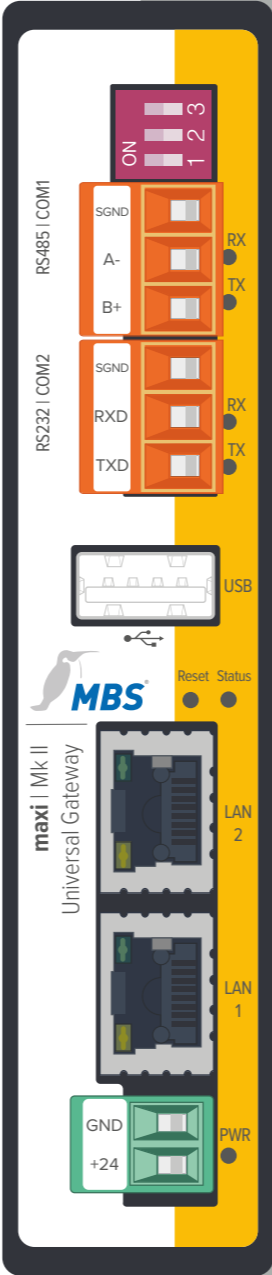
BACnet MSTP
MODBUS RTU
ESPA 4.4.4.

BACnet IP
IEC 60870-5-104
MODBUS IP
OPC Server DA 2.0
SNMP

Maxi MK II Gateway



For future applications



1 x RS485



1 x RS232



Multiple protocol drivers possible

BACnet MS/TP
MODBUS RTU

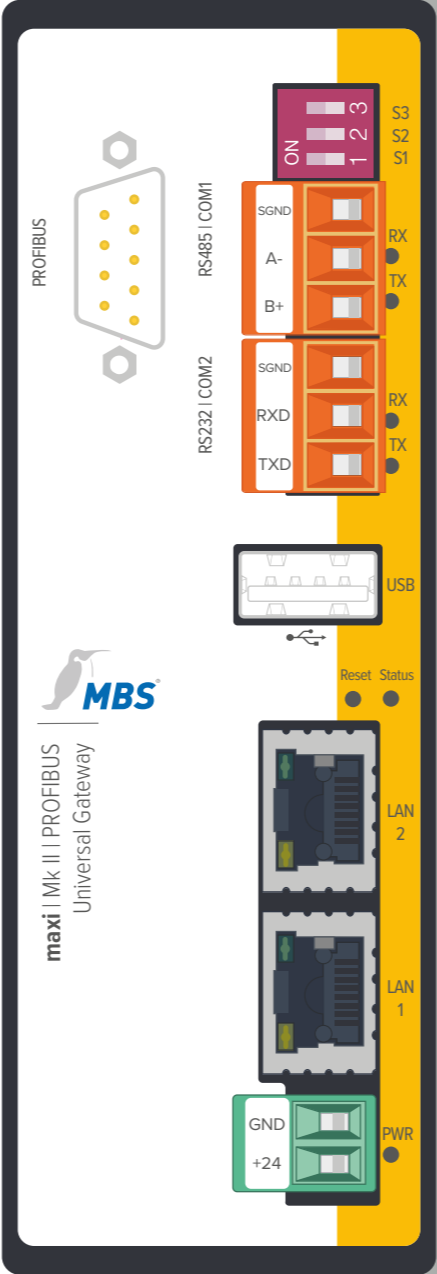
BACnet IP
Modbus TCP
OPC ...

Maxi MK II Gateway Profibus

PROFIBUS for industrial automation



For future applications



Multiple protocol drivers possible

BACnet MS/TP
MODBUS RTU

BACnet IP
Modbus TCP
OPC ...