

# THE ROUTER SOLUTION FOR YOUR BUSINESS



## UBR | LON

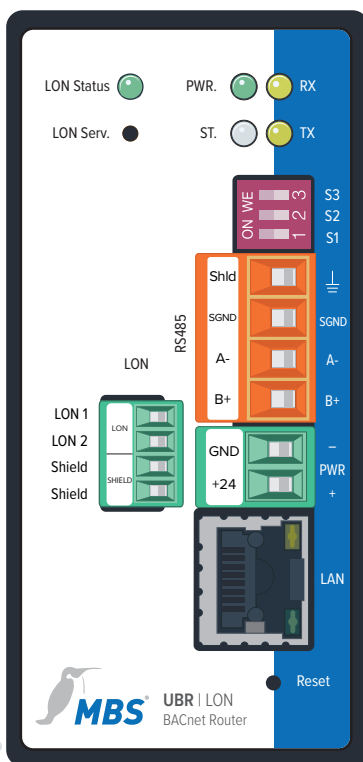
### Facilitating communication between two worlds

The Universal BACnet Router (UBR) links BACnet over LonTalk to BACnet/IP. It gives property operators an inexpensive way of connecting facility engineering based on BACnet over LonTalk to the modern IP technology.

# UBR | LON

## Facilitating communication between two worlds

The LON field bus performance standard (Local Operating Network, ISO 14908-x) with the LonTalk communication protocol is one of the world's most popular building automation technologies. The idea behind it is, at the automation level, to establish a topology decentrally and using existing structures in enclosures and buildings – for example as stars, rings or lines. This enables integrated networking and brings great flexibility to the system as a whole. Yet when fixed-network telephony is switched over to Voice over Internet Protocol (VoIP), telephone alarm systems suffer a communication gap.



### Closing the communication gap

The VoIP has become increasingly well-established and will continue to do so. According to the German Federal Network Agency, there were 25.5 million VoIP connections in Germany by late 2018, and the figure was rising. But controllers that use BACnet over LonTalk and issue alerts by phone are not suitable for IP telephony. So, this type of alert system no longer works when the existing phone line is switched to VoIP. For such cases, MBS has added the Universal BACnet Router UBR | LON to its product line. It mediates between these two worlds, because it converts the data that is transported by BACnet over LonTalk to IP-capable information.

### Variable routing between three bus protocols

The new UBR | LON is a product based on MBS' extensive know-how of bus protocols and existing, tried-and-tested components for building automation. Developed in response to customers' express wishes, it is absolutely ideal for setting up variable routing. The device has three interfaces for BACnet/IP, BACnet MS/TP and BACnet over LonTalk. With this configuration, data packets can be transported not just from BACnet over LonTalk to BACnet/IP and to BACnet MS/TP, but also from BACnet/IP to BACnet MS/TP. The data can also be routed flexibly, backwards and forwards, between all three bus protocols.

### Investment protection included

With the UBR | LON, the benefits of decentralised automation with the LON performance standard can be linked to modern IP telephony. Property operators who are using the relevant controllers also have an element of investment protection because they can continue to use these control components when changing over to VoIP.

Based on our modularity, we develop and manufacture cost-effective and time-efficient solutions for you which are highly innovative and guarantee a secure investment. Take advantage of the expertise we have accumulated over more than 30 years and our experience of customer projects in various industries.

### PWR - Power

Operating voltage:  
 V+: +12 to +24V DC or 12 to 24V AC  
 V-: GND or 12 to 24V AC

### LAN

J45: 10/100 MBit Ethernet  
 Link: Displays a LAN connection  
 10/10: Displays the connection speed

### LED

Power: Lights up as soon as the device is connected to a suitable operating voltage  
 RX: Blinks when the unit is receiving data  
 Status: Multicolor status LED  
 TX: Blinks when the unit is transmitting data

### RS485 (Isolated 1kV)

#### COM1

#### RS485

B+: Non-inverted input  
 A-: Inverting input  
 SGND: Ground connection  
 Shld: Shield connected to PE

### Dip switch

Bias: voltage for RS485  
 Bias: voltage for RS485  
 120 Ohm: terminating resistor

### LON (TP/FT-10)

#### LON

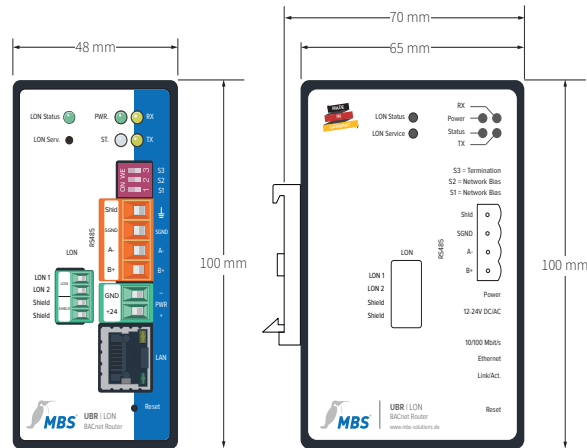
LON 1  
 LON 2  
 Shield  
 Shield

### LED

The LON Status LED signalizes the node status of the Easylon USB Socket Interface. The following Service LED Signals are defined:  
 Flash: No communication with Neuron (Error)  
 Flashing: Driver is installed, device is "unconfigured" (Set device to "configured")  
 On: Device is "applicationless" and "unconfigured"  
 Off: installation ok (normal operating condition)

### Taster

Lon Service



Need help with commissioning?

Contact us!

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### Specifications

**Power consumption:** 2.2 watts  
**Weight:** 300 grams  
**Dimensions:** height: 100 mm, width: 48 mm, depth: 70 mm (incl. DIN top-hat rail adapter)  
**Ambient temperature:** 0...45°C, 32...113°F  
**Ambient humidity:** 20...80 per cent relative humidity, non-condensing  
**Protection class:** IP20  
**Assembly:** DIN top-hat rail TS35 in accordance with EN 60715

### Article numbers

UBR | LON: Art.-Nr. 2-0015

Imprint: **Managing Director:** Gerhard Memmen-Krüger, Nils-Gunnar Fritz  
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**Responsible for contents according to § 6 MDSV:** Gerhard Memmen-Krüger, Nils-Gunnar Fritz

\*This product is CE certified  
 \*Specifications subject to change



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