

## FEATURES

- Bus Interface Unit for field bus connectivity
- Connectivity and integration capability in compact design
- Dedicated versions for M-Bus and RS485/RS232
- Compact tower style design
- Extension unit for LX-BMS-NIU
- Browser based configuration through NIU



## EASY INTEGRATION THROUGH LX-BMS-BIU

The CONNEX Series BIU, Bus Interface Unit, is the compact interface for field bus connectivity directly from the DDC panel. The BIU is used in combination with the LX-BMS-NIU, the Networked Intelligence Unit, together offering expandable multi-protocol support and TCP/IP connectivity in compact design. Up to six BIU's can be connected with one NIU.

## DEDICATED VERSIONS FOR RS485/RS232 AND M-BUS

### LX-BMS-BIU-SERIAL

The LX-BMS-BIU-SERIAL includes interfaces for RS485 and RS232. It offers physical connection to RS485 for different protocols. The BIU includes RS485 bus termination through the DIP switch.

### LX-BMS-BIU-MBUS

The LX-BMS-BIU-MBUS operates as a M-Bus Master allowing to connect with standard M-Bus Slaves. You can use BIU-MBUS with any devices equipped with M-Bus interface, e.g. heat meters, electricity meters, gas meters, or measuring instruments. The BIU has LEDs indicating communication (TX/RX), power and status of the device. Operating voltage for M-Bus is fed from an external power supply, which defines the maximum number of connected devices.

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## TECHNICAL DATA

<b>Processor:</b>	ARM Cortex™ M4 (Kinetis K10)
<b>Clock Frequency:</b>	50 MHz
<b>Power Supply:</b>	Powered from NIU
<b>Operating Temperature:</b>	10 ... 50 °C
<b>Connectivity:</b>	RS485/RS232 (LX-BMS-BIU-SERIAL), M-Bus (LX-BMS-BIU-MBUS), NIU-BIU connection through the BIU extension connector (1 pce included)
<b>IP Class:</b>	IP20
<b>Dimensions:</b>	101 x 119 x 17.5 mm
<b>Mounting:</b>	35mm DIN rail
<b>EMC Standards:</b>	Compliance according to EN 55022, EN 61000-4-3, EN 61000-4-5
<b>Production Standards:</b>	ISO-9001, ISO-14001

Upper Connector	5	RS-232 TX
	4	RS-232 RX
	3	RS-232 RTS
	2	RS-232 CTS
	1	RS-232 GND

Upper Connector	5	} Not in use
	4	
	3	
	2	
	1	

Lower Connector	5	Not in use
	4	Not in use
	3	RS-485 B
	2	RS-485 A
	1	SHIELD

Lower Connector	5	24V - / GO
	4	24V + / G
	3	M -
	2	M +
	1	SHIELD

	4	<input type="checkbox"/> OFF	Not in use
	3	<input type="checkbox"/> ON	RS-485 TERM
	2	<input type="checkbox"/>	ADDR 2
	1	<input type="checkbox"/>	ADDR 1

LX-BMS-BIU-SERIAL Connectors

LX-BMS-BIU-MBUS Connectors

DIP SWITCH Functions

## ORDER CODES:

LX-BMS-BIU-SERIAL, LX-BMS-BIU-MBUS