LIOB-FT I/O Module

LIOB-150/151/152/153/154 V2

Datasheet #89019919

| BACnet | Modbus |
| ✓ CEA-709 | M-Bus |
| KNX | OPC |
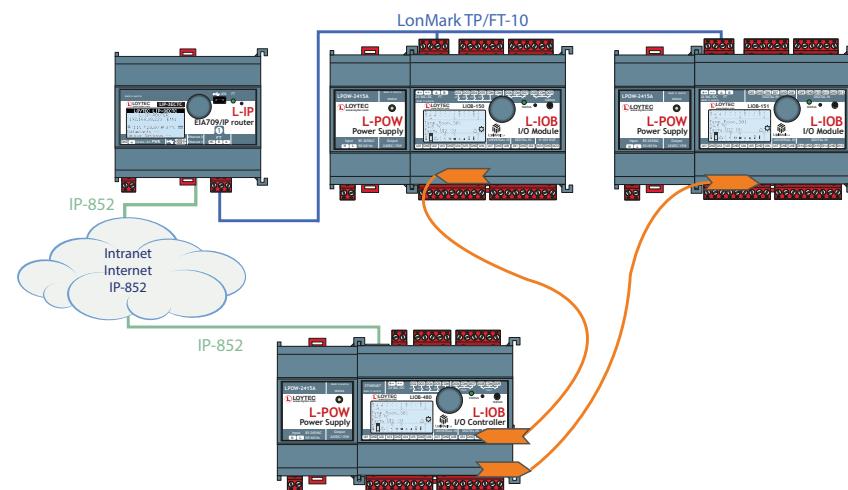
The LIOB-15x Modules are LonMark certified and communicate over TP/FT-10 in the LonMark System. They provide up to 512 address table entries (ECS mode) which eliminates all binding restrictions.

LIOB-FT mode

The LIOB-15x Modules can be switched to LIOB-FT mode using manual local operation. In LIOB-FT mode, the LIOB-15x Modules extend L-INX Automation Servers and L-ROC Room Controllers with physical inputs and outputs via plug and play.

Local Operation and override

All L-IOB I/O Modules are equipped with an LCD display (128x64) with backlight and jog dial for manual local operation. Device and data point information is displayed in text form and via graphical symbols.

Features

- I/O module with physical inputs and outputs
- SNVT-based interface for integration on the LonMark TP/FT-10 channel
- LonMark certified
- Manual operation using the jog dial
- 128x64 graphic display with backlight
- Local access to information about device status and data points in clear text and symbols

- Compliant with CEA-709 and ISO/IEC 14908-2 standard (LonMark System)
- Connected to the L-INX Automation Server or L-ROC Room Controller via LIOB-FT
- Automatic integration into device configurations with L-INX and L-ROC
- Easy device replacement without any additional software at the L-INX and L-ROC
- LNS plug-in for device configuration in the LonMark System

LIOB-150/151/152/153/154 V2

| General Specifications	
Dimensions (mm)	107 x 100 x 75 (L x W x H), DIM015, DIM016, DIM017
Installation	DIN rail mounting following DIN 43880, top hat rail EN 50022
Operating conditions	0 °C to 50 °C, 10 – 90 % RH, non condensing, degree of protection: IP40, IP20 (terminals)
Power supply	24 V DC / 24 V AC ±10 % via L-INX, L-ROC, or L-POW, or with LIOB-Connect, or via connecting an external power supply to the upper left terminal
Interface	1 x LonMark TP/FT-10 or LIOB-FT

Specifications LIOB-FT I/O Module (LIOB-15x)					
Type	**LIOB-150**	**LIOB-151**	**LIOB-152**	**LIOB-153**	**LIOB-154**
Power consumption	1.7 W 2.6 W (Relays on)	1.7 W	1.7 W 2.7 W (Relays on)	1.7 W 2.5 W (Relays on)	1.7 W 2.6 W (Relays on)
Universal Input (UI)	8	8	6	6	7
Digital Input (DI)	2	12	-	-	-
Analog Output (AO)	2	-	6	6	4
Digital Output (DO)	8 (4 x Relay 6 A, 4 x Triac 0.5 A)	-	8 (8 x Relay 6 A)	5 (4 x Relay 16 A, 1 x Relay 6 A)	7 (5 x Relay 6 A, 2 x Triac 0.5 A)
Digital Output specification	Please refer to the "General Input and Output Specification of LOYTEC devices" at the end of the L-IOB section for more details.				
Differential Pressure Sensor	-	-	-	-	0–500 Pa
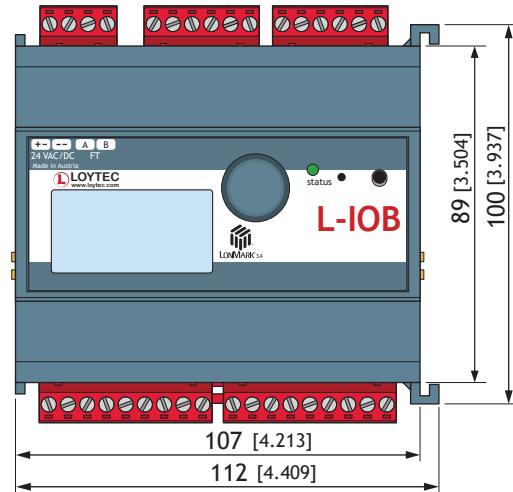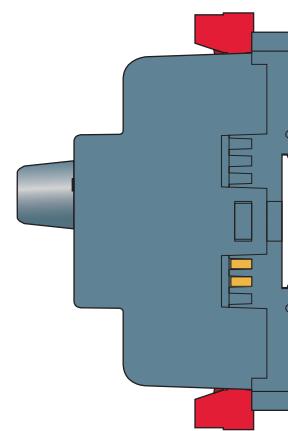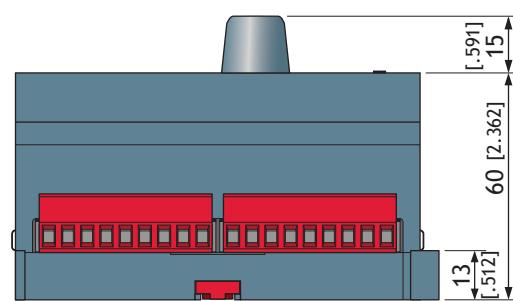
Resource limits	
Network variables (NVs)	Fixed static NV interface
Address table entries	512 (non-ECS mode: 15)

Order number	Product description
LIOB-150	LIOB-FT I/O Module: 8 UI, 2 DI, 2 AO, 8 DO (4 x Relay 6 A, 4 x Triac 0.5 A)
LIOB-151	LIOB-FT I/O Module: 8 UI, 12 DI
LIOB-152	LIOB-FT I/O Module: 6 UI, 6 AO, 8 DO (8 x Relay 6 A)
LIOB-153	LIOB-FT I/O Module: 6 UI, 6 AO, 5 DO (4 x Relay 16 A, 1 x Relay 6 A)
LIOB-154	LIOB-FT I/O Module: 7 UI, 4 AO, 7 DO (5 x Relay 6 A, 2 x Triac 0.5 A), 1 Pressure Sensor
LPOW-2415A	LIOB-Connect power supply unit, 24 V DC, 15 W
LPOW-2415B	Power supply unit with power connector 24 V DC, 15 W
L-TEMP2	External temperature sensor (NTC10K) for use with L-IOB Universal Inputs

Dimensions of the devices in mm and [inch]

Functions
L-WEB, L-STUDIO
L-ROC
L-INX
L-IOB
Gateways
L-VIS, L-STAT
L-DALI
Routers, NIC
Interfaces
Accessories
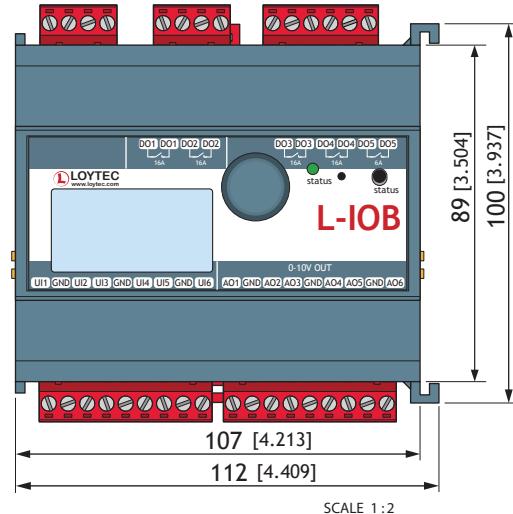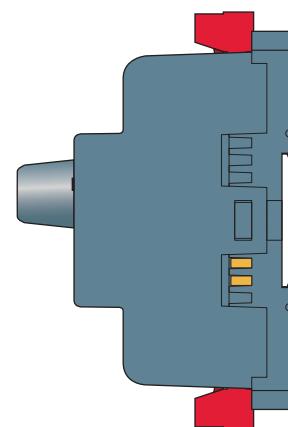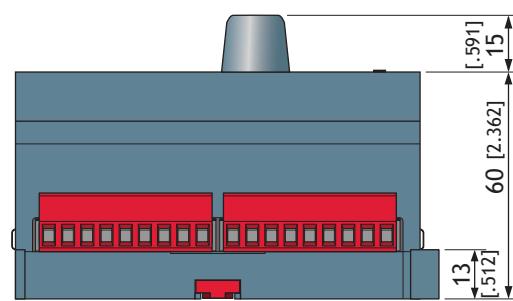
DIM015

LIOB-150
LIOB-151
LIOB-152
LIOB-180
LIOB-181
LIOB-182

15 [.591]
60 [2.362]
13 [.512]

89 [3.504]
100 [3.937]

L-IOB

107 [4.213]
112 [4.409]

DIM016

LIOB-153
LIOB-183

15 [.591]
60 [2.362]
13 [.512]

DO1 DO1 DO2 DO2   DO3 DO3 DO4 DO5 DO5
16A   16A   16A   6A

89 [3.504]
100 [3.937]

status   status

L-IOB

UI1 GND UI2 UI3 GND UI4 UI5 GND UI6   0-10V OUT   AO1 GND AO2 AO3 GND AO4 AO5 GND AO6

107 [4.213]
112 [4.409]

SCALE 1:2
10 0   20   40   60   80   100 mm

Functions

L-WEB, L-STUDIO

L-ROC

L-INX

L-IOB

Gateways

L-VIS, L-STAT

L-DALI

Routers, NIC

Interfaces

Accessories

Dimensions of the devices in mm and [inch]

DIM017 LIOB-154

LIOB-184

15 [.591]

60 [2.362]

13 [.512]

94 [3.701]

89 [3.504]

100 [3.937]

107 [4.213]

112 [4.409]

L-IOB

LOYTEC
www.loytec.com

LonMark 3.4

24 VAC/DC   FT

Made in Austria

DO1 DO2 DO3 DO4 DO5 COM   DO6 COM DO7

6A   6A   6A   6A   6A   TRIAC   LOW HIGH   PRESSURE

status   status

UNIVERSAL IN   0-10V OUT

UI1 GND UI2 UI3 GND UI4 UI5 GND UI6   UI7 GND NC   AO1 GND AO2 AO3 GND AO4