

iSMA-B-LP / iSMA-B-LP-1

iSMA-B-LP is a wall panel with **2.3" LCD display** and four function buttons. Additionally, the panel has the built-in temperature sensor and optionally the humidity and CO₂ sensors. iSMA-B-LP is powered with 24 V AC/DC and has the built-in RS485 port (**Modbus RTU/ASCII, BACnet MSTP**). Use of open communication protocol allows to connect the panel with any controller supporting **Modbus RTU/ASCII** or **BACnet MSTP**. Together with iSMA-B-FCU controller, the panel allows to change the basic parameters such as: temperature setpoint, fan speed, FCU mode and others. Thanks to built-in USB port, there is possibility to maintenance the panel configuration without the power supply. iSMA-B-LP has the modern design and **it is available in different colours** at client's request, and also **in two versions of button icons appearance**.

Key Features

- 2.3" LCD display with backlight
- 4x function buttons
- Built-in temperature, CO₂ and humidity sensors
- Modbus RTU/ASCII
- BACnet MSTP
- Wall mounting (standard electric box – 60 mm/2.3622 in)
- Changing of the basic parameters in conjunction with FCU controller
- 2x RJ12 for fast connection to FCU controller
- 7 main menu categories
- Over 100 freely configurable variables
- Possibility to display the current time



iSMA-B-LP



iSMA-B-LP-1



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Specification

Temperature Sensor:

- Type: 10k NTC
- Range: 0 – 50°C (32°F – 122°F)
- Accuracy: +/- 0,5°C (0,9°F)
- Resolution: +/- 0,1°C (0,18°F)

Humidity Sensor:

- Range: 0-100% RH
- Accuracy: +/- 2% RH in range 20 – 80% RH
- Resolution: +/- 1% RH

CO₂ Sensor:

- Method Non Dispersive Infrared (NDIR), gold plated optics, diffusion sampling (with Telaire's Patented ABC Logic Self Calibrated Algorithm)
- Range: 400 – 2000 ppm
- Accuracy: +/- 30 ppm OR +/- 3% of reading
- Stability: < 2% of FS over life of sensor (15 years typical)
- Warm Up Time : < 2 minutes (operational); 10 minutes (maximum accuracy)
- Calibration: ABC Logic Algorithm
- Manual Calibration Interval: Not required

Communication

- 2x RJ12 terminal (RS485 half-duplex)
- Baud rate: 2400 to 115200 bps
- Protocols: Modbus, BACnet
- MINI USB, Type B

Platform

- ARM Cortex: M0+

Housing

- Dimension: 100x123x27 mm (3.9371x4.8426x1.063 in)
- Construction: plastic, self-extinguishing (PC/ABS)
- Wall mounting (standard electric box)
- Cooling: internal air circulation

Environment

- Operating temperature: 0°C to 50°C (32°F to 122°F)
- Storage temperature: -40°C to 85°C (-40°F to 185°F)
- Relative humidity: 5% to 95%, no condensation
- Ingress Protection Rating: IP20
- For indoor installation

Power Supply

- 24 V AC/DC +/- 20%

Type	Temperature	Humidity	CO ₂
iSMA-B-LP(-1)	✓		
iSMA-B-LP-H(-1)	✓	✓	
iSMA-B-LP-C(-1)	✓		✓
iSMA-B-LP-HC(-1)	✓	✓	✓

