iSMA-B-LP

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 CO_2 sensors.

iSMA-B-LP is powered with 24 V AC/DC and has the built-in RS485 port (Modbus RTU/ASCII). Use of open communication protocol allows to connect the panel with any controller supports Modbus RTU/ASCII. 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 and panel configuration without the necessity of power supply. iSMA-B-LP has the modern design and is available in different colours (white is basic) on client request.

Key Features

- 2.3″ LCD display with backlight
- 4x function buttons
- Built-in temperature, CO_2 and humidity sensors
- Wall mounting (standard electric box – 60 mm)
- Changing of the basic parameters in connection with FCU controller
- Modbus RTU/ASCII
- 2x RJ12 for fast connection to FCU controller
- 7 main menu categories
- Over 100 variables freely to use
- Possibility to display time

iSMA-B-LP

Specification

Temperature sensor:

- Type: 10k NTC
- Range: 0 – 50°C
- Accuracy: +/- 0,5°C
- Resolution: +/- 0,1°C

Humidity sensor:

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

CO_2 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 RJ 12 terminal (RS485 half duplex)
- Baud rate: 2400 to 115200 bps
- Protocol: Modbus
- MINI USB, Type B

Platform

- ARM Cortex-M0+

Housing

- Dimension: 100x123x27 mm
- Construction: plastic, self-extinguishing (PC/ABS)
- Wall mounting (standard electric box)
- Cooling: internal air circulation

Environment

- Operating temperature: 0°C to 50°C
- Storage temperature: -40°C to 85°C
- Relative humidity: 5% to 95%, no condensation
- Ingress Protection Rating: IP40
- For indoor installation

Power supply

- 24 V AC/DC +/- 20%

Ordering	Temperature	Humidity	CO2
iSMA-B-LP	✓		
iSMA-B-LP-H	✓	✓	
iSMA-B-LP-C	✓		✓
iSMA-B-LP-HC	✓	✓	✓