

CO2 Control Panel Board

Description

CO2 control panel board is designed for measuring CO2 concentration in the air of button mushroom (champignon, agaricus) growing room or in the phase III tunnel or room. CO2 control panel board consists of a sealed plastic enclosure, AG-UN-05p CO2 transmitter, pneumatic pump, power supply unit, key switch lock, air tube and electrical assembly. Besides, it is supplied complete with air filter, filter mounting bracket, air tube and a stainless steel condensing pipe.

The panel board is mounted in the clean corridor of the mushroom farm. The air with CO2 is pumped out of the growing room and supplied through the air tube and air filter to CO2 transmitter. CO2 transmitter measures the level of CO2 concentration up to 5000 ppm (30000 ppm - for phase III). The detected value is transformed into an analogue 4-20 mA output signal and transmitted to a mushroom controller. The issue with moisture condensation in the tube is carried out by a stainless steel condensing pipe and air filter with water trap mounted in the corridor. As well, CO2 transmitter is additionally heated to avoid condensate.



Basic Specifications

CO2 Control Panel Board Power Supply	220 VAC
CO2 Transmitter Power Supply	24 VDC, 0.3 A
CO2 Range	0 to 5000 ppm (30000 ppm - for p.III)
CO2 Accuracy	±85 ppm
Output Signal	4-20 mA (0-10 V optional)
Protection Class	IP 40
Panel Board Dimensions (HxWxD)	335x255x135 mm

Model

Description

CO2 Control Panel Board	CO2 Control Panel Board, 4-20 mA Output, 220 VAC
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CO2 Transmitter

AG-06e



Description

AG-06e CO2 Transmitter is designed for measuring CO2 concentration in the ambient air of oyster mushroom (Pleurotus) growing room.

The transmitter is mounted inside the growing room. The air with CO2 gets through the holes in the transmitter's enclosure to the measuring CO2 sensor which measures the level of CO2 concentration up to 5000 ppm. The detected value is transformed into an analogue 4-20 mA (0-10 V) and RS485 output signals and indicated on the built-in monochrome display.

Basic Specifications

CO2 Measurement Range	0 to 5000 ppm
CO2 Accuracy	±85 ppm
Output Type 1	4-20 mA (0-10 V option)
Output Type 2	RS485
Response Time	1 min
Supply Voltage (CO2 Module)	24 VDC
Operating Temperature	0 to 50°C
Enclosure Material	ABS plastic
Protection Class	IP 41
Dimensions (HxWxD)	141x78x70 mm

Model

Description

AG-06e	CO2 Transmitter, 4-20 mA (24 VDC)
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