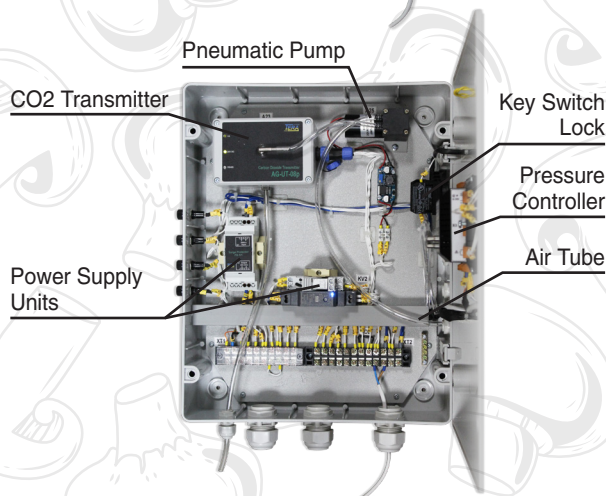# CO2 and Pressure Control Panel Board

Description

CO2 and pressure control board is designed for measuring CO2 concentration in air and for keeping the positive air pressure in the button mushroom (champignon, agaricus) growing room. 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. The detected value is transformed into an analogue 4-20 mA (or 0-10 V on request) output signal and transmitted to a mushroom controller.

Functions

Measurement the difference of the air pressure in a growing room and a corridor
Automatic control of air overpressure in a growing room
Noise filtering
Alarm signal when the pressure is out of range
Data transfer to a PC via RS485 communication interface

Pneumatic Pump
CO2 Transmitter
Key Switch Lock
Pressure Controller
Air Tube
Power Supply Units

Basic Specifications

CO2 and Pressure Control Panel Board Power Supply	220 VAC
CO2 Transmitter Power Supply	24 VDC, 0.3 A
CO2 Range	0 to 5000 ppm
CO2 Accuracy	±85 ppm
Pressure Sensor Type	DC001NDC4
Pressure Controller Power Consumption	max 4 W
Pressure Range	-249 to 249 Pa
Pressure Accuracy	±1%
Output Signal Proportional to 5000 ppm CO2 Level	4-20 mA (0-10 V option)
Protection Class	IP 52
Panel Board Dimensions (HxWxD)	335x255x135 mm

Model	Description
CO2 and Pressure Control Panel Board	CO2 and Pressure Control Panel Board, 0 to 5000 ppm, -249 to 249 Pa

MEASURING SYSTEMS

1 - AKS Controller for Industrial Mushroom Growing
2 - CO2 and Pressure Control Panel Board