



CO2 Transmitter Agriculture, Swimming Halls

AGRI

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AGRI

Features

- Auto Calibration
- Compact Housing
- 0-10Vdc or 4-20mA measuring signals
- Excellent accuracy and stability
- Three Measuring Levels
- Dual Sensing Element
- IP54 Protection Class
- Easy Installation
- For Harsh Environments
- Dual Filter System
- No Field Re-Calibration

Technical Data

Measuring principle:	Non-Dispersive Infrared Technology (NDIR)	
Sensing element:	Dual Source Infrared System	
Measuring range:	0-2000/5000/7000ppm	
Accuracy at 20C(68F) and 1013mbar:		
	0...2000ppm	< +/- (50ppm +2% of measuring value)
	0...5000ppm	< +/- (50ppm +3% of measuring value)
	0...7000ppm	< +/- (50ppm +7% of measuring value)
Response time:	< 120s, min. air velocity 1m/s(200ft/min)	
Temperature dep.:	Typ. 2ppm CO2/C	
Long term stability:	Typ. 20ppm/year	
Sample rate:	ca. 30s	
Output:	0-10Vdc -1mA <IL <1mA 4-20mA RL <500ohm	
Load resistance:	0-10Vdc = RL>10kohm 4-20mA = RL<500ohm	
Output scaling:	see sticker on housing	
Power supply:	24Vac +/-20% SELV 15-35Vdc	
Power requirement :	< 3W	
Warm up time:	< 5 min	
Electrical connection :	M12 plug	
Working:		
Temp/Conditions	-20/+60C (-4/+140F)	0-100%rH
Storage:		
Temp/Conditions :	-20/+60C (-4/+140F)	0-95%rH
Housing/Protection :	PC/IP54	
ATTENTION:	Absolutely avoid extreme mechanical and unspecified strain	

These products meets the requirements of CE-approval

Application

- Green Houses
- Swimming Halls
- Fertilizers
- Swimming Halls
- Industrial
- Lif Stock Barns
- High Humidity Levels
- Herbicides
- High Ammonia Concentratio
- Fruit and Vegetable Storage

Descriptions

The transmitters are designed for applications within HVAC, Industry and Agriculture.

Measuring instruments in green houses or life stock barns are exposed to very demanding environment

The operation is based on the infrared principle.

A patented auto-calibration procedure compensates for the aging of infrared source and ensures outstanding long term stability.

The robust, functional housing of the AGRI with integrated special filter has been designed for such applications as above application hazards.

The air diffuses through the filter into instrument enclosure.

Then the air diffuses through further through a second membrane filter integrated in the CO2 measuring cell.

The very practical snap-in mounting flange and connector for the supply voltage and outputs allow quick and easy installation of the AGRI without opening the housing

Ordering

AGRI 2000	CO2 Transmitter 0-2000ppm 0-10Vdc/4-20mA
AGRI 5000	CO2 Transmitter 0-5000ppm 0-10Vdc/4-20mA
AGRI 7000	CO2 Transmitter 0-7000ppm 0-10Vdc/4-20mA

Descriptions

The CO₂ measurement is based on the non-dispersive infrared (NDIR) technology.

The patented auto-calibration procedure compensates for aging of the infrared source and guarantees high reliability, long term stability and eliminates the need of periodical recalibration in the field.

Anschlussbild



1) GND intern verbunden

Abmessungen (mm)

