Serie
DPWQ40200

Anwendung

Self-calibrating sensor with microprocessor control for measuring carbon dioxide content in the air within the range from 0 to 2,000 million^{-1} (parts per million).

Design

CO2 sensor has 2 analogue outputs: 0-10 V and 4-20 mA. An analogue output provides for stepless fan speed control (requires an EC motor fan or an additional fan speed controller with input 0 ... 10 V, for example, VFED). With stepless control the fan speed is changed in proportion to carbon dioxide concentration changes. The CO_2 content in the air is measured by means of a non-dispersive infrared analyser (NDIR).

Mounting

The sensor is mounted onto a wall or a mounting box inside the serviced space. The unit is powered from a 24 V AC/DC low-current electric mains.

Technical data

Parameters	Values
Power source	24 V AC/DC
Gas analyser	optical (NDIR)
CO_2 measurement range	0-2,000 million^{-1} (parts per million) of CO_2
CO_2 output signal	0-10 V
CO_2 measurement precision	± 30 million^{-1} (parts per million), ± 5 % of maximum value
Operating conditions	0-50 °C; 10-90 % relative humidity without condensate
Protection class	IP55
Dimensions [mm]	95x97x30

Connection diagram

VUTR P/V EC

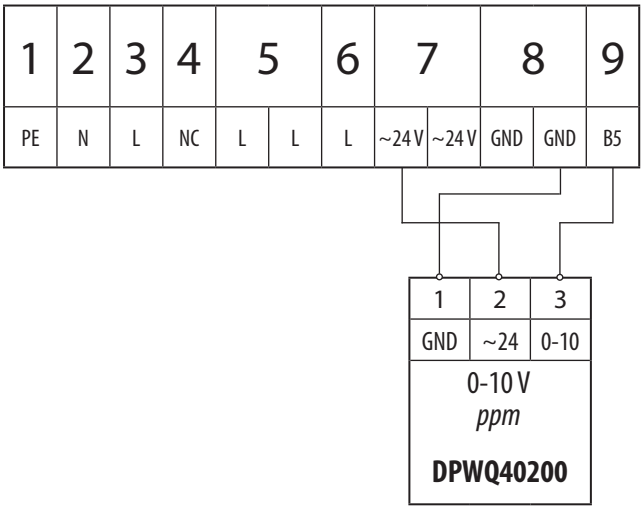
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
GND	R+	R-	GND~	~24 V	0-10 V	GND	~24 V	NO	NO	NO	NO	2	1	2	1	TS1	TS1	PE	N	L	N	L1

1	2	3
GND	~24	0-10

0-10 V
ppm

DPWQ40200

DVUT HB EC



DVUT PB EC