

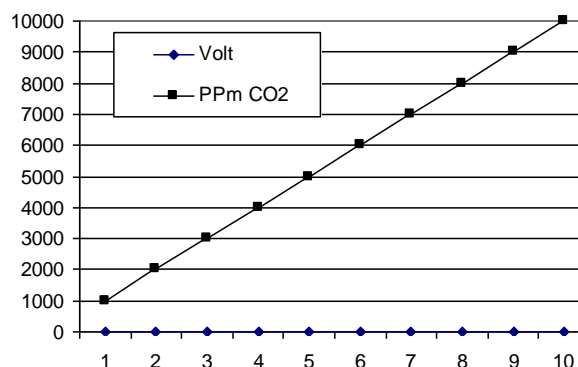
## DOL 17 CO<sub>2</sub> sensor

The CO<sub>2</sub> sensor is used in connection with climate and production computers for monitoring or control of the climate by way of the CO<sub>2</sub> content of the house air.



### PRODUCT DESCRIPTION

The auto-calibration procedure of the CO<sub>2</sub> sensor compensates for aging of the infrared source and guarantees high reliability, long term stability and eliminates the need of periodical recalibration.



OPERATION CURVE

### 140225 DOL 17 CO<sub>2</sub> SENSOR 0-10,000 PPM

The sensor is supplied in a sturdy plastic housing, which protects against the harsh environment of the livestock house. A supplied plug system is used for connection so the sensor can easily be detached and removed from the livestock house during cleaning.



### 140226 DOL 17 M12 PLUG WITH CAP

The plug system makes it possible to connect the sensor without ever opening the housing. The cap protects the plug from dirt and water when the sensor is detached.



## TECHNICAL DATA

Measuring values			
Measuring principle	Non-Dispersive Infrared Technology (NDIR)		
Accuracy at 20°C (68°F) and 1013mbar	0...7000ppm < ± (50ppm +5% of measuring value) 7000...10000ppm < ± (100ppm +10% of measuring value)		
Response time $\tau_{63}$ <sup>1)</sup>	< 120s	<sup>1)</sup> minimum air velocity 1m/s (200ft/min.)	
Temperature dependence	typ. 2ppm CO2/°C		
Long term stability	typ. 20ppm / year		
Sample rate	ca. 30s		
Analogue output			
0...10000 ppm	0 - 10V	-1mA < I <sub>L</sub> < 1mA	
General			
Supply voltage SELV	24V AC ±20%	15 - 35V DC	SELV = Safety Extra Low Voltage
Power requirement	< 3 W		
Warm up time	< 5 min		
Housing / protection class	PC / IP54		
Electrical connection	M12 plug		
Electromagnetic compatibility	EN 61000-6-3 ÖVE EN61326-1+A1+A2:05.2002		CE
	EN 61000-6-1 FCC Part 15 ICES-003 ClassB		CE
Working temp. and conditions	-20...60°C (-4...140°F) 0...100% RH		
Storage temp. and conditions	-20...60°C (-4...140°F) 0...95% RH (not condensating)		

## DIMENSIONAL SKETCH

