

Measuring Oxygen System

OZC-01 / OZC-02

Description

Oxygen Measuring System is used for measuring oxygen concentration in the sample of compost gas periodically taken from the compost or recirculated air. The system consists of power supply panel board with O2 concentration meter, filtration panel for preliminary drying and cleaning of compost gas sample, PUR air tube and compost gas sampling pike. The O2 meter generates 4-20mA output signal proportional to oxygen concentration in a sample of compost gas.

Functions

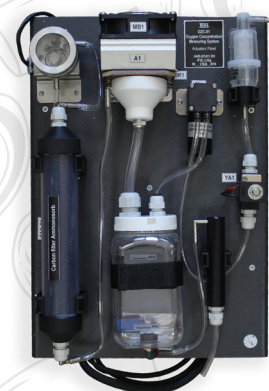
- O2 concentration measuring in the composting gas
- Preliminary drying and cleaning of the sample of compost gas
- Setting the mode, sampling time and pumping start
- Alarm indication
- Possibility of using pike for sampling the compost gas directly out of the compost depth

Basic Specifications

Oxygen Measuring Range	0.1% to 25%
Compost Gas Temperature Range	+5 to +80°C
Max Gas Overpressure	0,1 bar
Compost Gas Flow	1 L/min
Power Consumption	max 80 W
Dimensions (HxWxD)	390x270x120 mm
Panel Board Dimensions (HxWxD)	425x360x140 mm
Supply Voltage	220 VAC
O2 Output Signal	4 to 20 mA

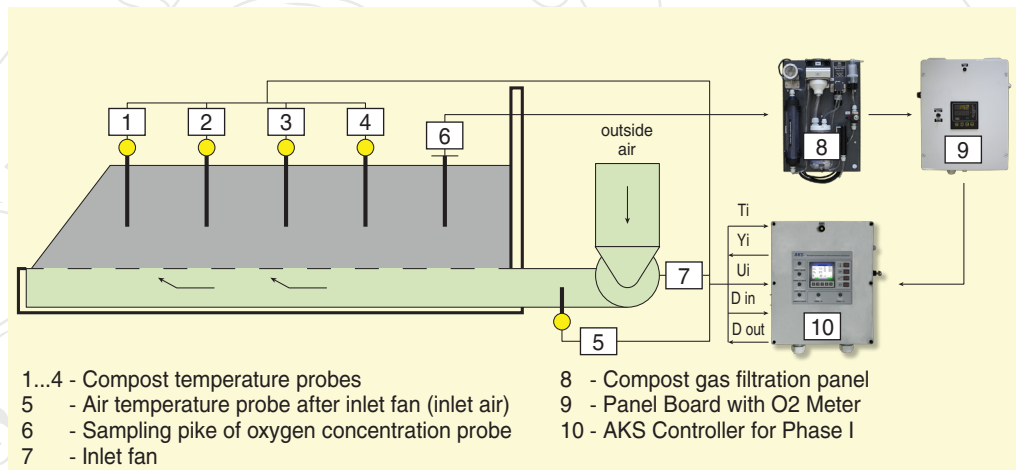


Panel Board with O2 Meter



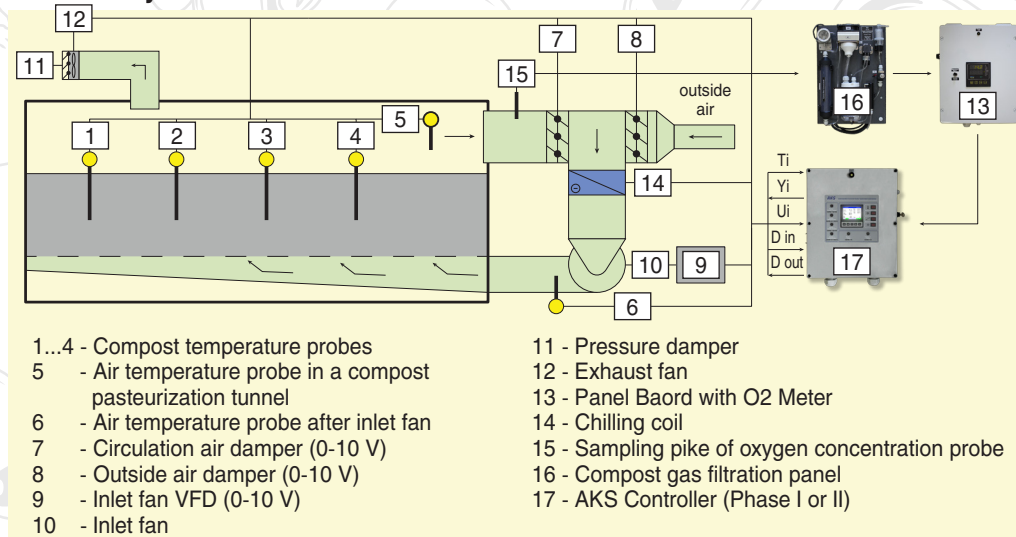
Compost gas filtration panel

OZC-01 Layout In Phase I Open Bunker



- 1...4 - Compost temperature probes
- 5 - Air temperature probe after inlet fan (inlet air)
- 6 - Sampling pike of oxygen concentration probe
- 7 - Inlet fan
- 8 - Compost gas filtration panel
- 9 - Panel Board with O2 Meter
- 10 - AKS Controller for Phase I

OZC-01 Layout In Phase I Closed Bunker and Tunnel



- 1...4 - Compost temperature probes
- 5 - Air temperature probe in a compost pasteurization tunnel
- 6 - Air temperature probe after inlet fan
- 7 - Circulation air damper (0-10 V)
- 8 - Outside air damper (0-10 V)
- 9 - Inlet fan VFD (0-10 V)
- 10 - Inlet fan
- 11 - Pressure damper
- 12 - Exhaust fan
- 13 - Panel Board with O2 Meter
- 14 - Chilling coil
- 15 - Sampling pike of oxygen concentration probe
- 16 - Compost gas filtration panel
- 17 - AKS Controller (Phase I or II)



Sampling pike of oxygen concentration probe

MEASURING SYSTEMS

Model

Description

OZC-01	O2 Concentration Measuring System, 30 m PUR Air Tube, Sampling Pike
OZC-02	O2 Concentration Measuring System, 30 m PUR Air Tube