

Data sheet No. DenA2231XX00

Monitor for continuous measurement of dissolved oxygen in potable water and effluents

# Monitor FAM Oxysafe PVC

## Included in delivery:

- Transmitter FAM Oxysafe in aluminium housing.
- Swansensor Oxysafe (indication of membrane break and electrolyte exhaustion).
- Flow cell B-Flow Z PVC Sample inlet: connection for glued bushing Ø 25mm.
  Sample outlet: pressure free, funnel con. Ø 20mm.
- Ready for operation on mounting panel made of PVC.

## **Specifications:**

- Large backlit LCD-Display for the display of measuring value, temperature and operating status.
- Measuring range: 0 20.0 ppm, 0 200 % saturation.
- Automatic air pressure compensation.
- Automatic calibration procedure.
- Two signal outputs, galvanically separated from sensor input for oxygen and temperature 0/4 20 mA.
- Potential-free alarm contact as summary alarm indication for programmable alarm values and for instrument faults.
- Two potential-free contacts programmable as limit switch or PID-control.
- 2 inputs for potential-free contact, function programmable.
- High-voltage protection for signal outputs and RS485.
- Temperature sensor for case temperature with alarm.



Order scheme	Monitor FAM Oxysafe PVC	A-22.31			0	0
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Current supply:	230 VAC, 50/60 Hz		1			
	115 VAC, 50/60 Hz		2	Í		
	24 VAC, 50/60 Hz		3	Ì		
	24 VDC, direct current (isolated)		4	Ì		
	200 VAC, 50/60 Hz		5	i		
	100 VAC, 50/60 Hz		6	i		
Interface:	not used			0		
	RS485 (PROFIBUS DP. MODBUS ASCII/RTU, SWANBUS)			2		



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### Technical data:

Dimensions:	850 x 280 x 200 mm		
Weight:	9 kg		
Case:	Aluminium IP 66		
Ambient temperat	ture: -15 to +50 °C		
Limit range of operation: -25 to +65 °C			
Storage and trans	sport: -30 to +85 °C		
Relative humidity:	10 to 90%		
	not condensina		

## Data indication:

LCD backlit, 15 mm high Connections: Strippable terminal blocks Mounting panel: PVC

### Voltage supply:

Voltage supply: 24, 115, 230, 200, 100 VAC (±15%) / 50/60 Hz or direct current 24 VDC (isolated, ±20%) Power consumption: max. 7 VA Parameter storage without battery

#### Alarm relay:

Potential-free contact Max. load: 1A / 250 VAC Summary alarm indication for programmable alarm values and instrument fault Setting of alarm values by keypad

#### Interface:

RS485 with PROFIBUS DP according to DIN 19245 part 3 or RS485 with SWANBUS or RS485 with MODBUS ASCII/RTU

## Signal outputs:

Programmable as signal output of measuring value (freely scaleable, linear or bilinear) or as continuous control output (control parameters programmable) Current loop: 0/4 .... 20 mA Max. burden: 510 Ω Galvanically separated from sensor input

## Relays:

Two potential-free contacts

- programmable as
- limit switches for measuring value - controller
- limit switches for temperature
- timer for sensor cleaning with automatic hold function
- alarm for too low / too high flow (only with Swan flow sensor)

Max. load: 1A / 250 VAC

## **Control function:**

Relays or current output programmable for 1 or 2 dosing pumps, solenoid valves, pulse pumps or for one motor valve Control: P, PI, PID, PD Programmable control parameters

## Meas. Cell/ sample requirements:

Flow cell made of PVC. Sample inlet: connection for glued bushing Sample outlet: funnel for flexible tube Ø 25 mm Sample flow: 20 to 40 l/h Sample pressure: 0.15 to 2 bar

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#### Input 1:

- For potential-free contact.
- Programmable as:
- hold
- remote-off

## Input 2:

- For potential-free contact.
- Programmable as:
- hold
- remote-off
- flow check, alarm programmable at opened or closed contact
- flow sensor, with Swansensor in I/h

#### O<sub>2</sub>-measurement:

Signal input galvanically separated for OXYSAFE oxygen sensor Measuring range: 0 to 20 ppm O<sub>2</sub> resp. saturation: 0 to 200% Resolution: 0.01 ppm Automatic temperature compensation Automatic air pressure compensation Correction of salinity Monitoring of diaphragm integrity and electrolyte exhaust

#### Temperature:

Measuring range:	-30 to +130 °C
Resolution:	0.1 °C

### Monitoring of case temperature:

Alarm if temperature is higher than +65 °C or lower than -25 °C

