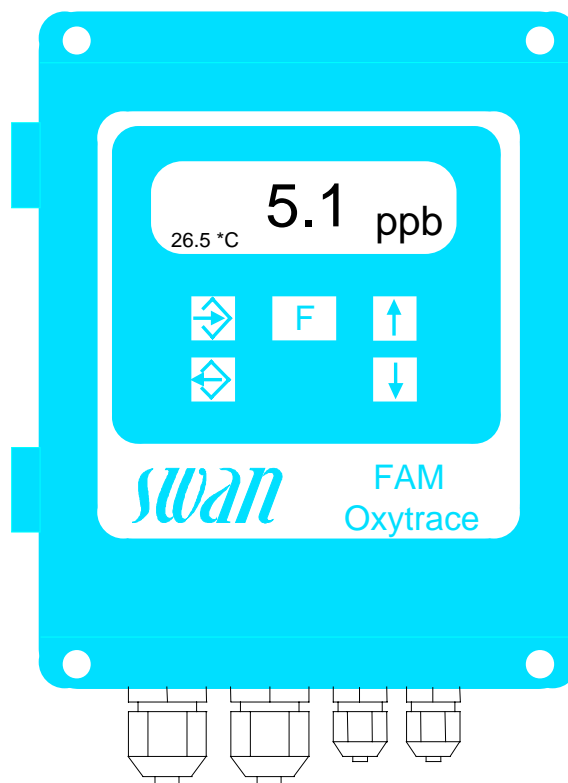


Electronic transmitter/controller for the automatic and continuous measurement of dissolved oxygen in high purity water.

## FAM Oxytrace

- Measuring transmitter in an aluminium case (IP66) 180 x 140 x 70 mm.
- Big backlit LCD-Display for the display of measuring value, temperature and operating status.
- Easy programming of all parameters by keypad.
- Measuring range: 0 - 200 ppb, 0 - 2000 ppb, 0 - 20 ppm, 0% - 200% saturation. Automatic range switching.
- Galvanically separated connection for OXYTRACE SC oxygen sensor (indication of membrane break and electrolyte exhaustion).
- Automatic air pressure compensation.
- Correction of salinity.
- Automatic calibration procedure.
- Overvoltage protection for in- and outputs.
- Two signal outputs, galvanically separated from sensor input for oxygen and temperature 0/4 - 20 mA.
- Both signal outputs freely scaleable and with simulation mode.
- 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.
- Two inputs for potential-free contact, function programmable.
- High-voltage protection for signal outputs and RS485.
- Temperature sensor for case temperature with alarm.



### Options:

- Interface RS485 with PROFIBUS DP, MODBUS ASCII/RTU, or SWANBUS.
- Immersion assembly UNIDIP optional with built-in spray cleaner system RINSEMATIC

Order scheme	FAM Oxytrace	A-12.15			0 0
Current supply:	230 VAC, 50/60 Hz		1	↑	
	115 VAC, 50/60 Hz		2		
	24 VAC, 50/60 Hz		3		
	24 VDC, direct current (isolated)		4		
	200 VAC, 50/60 Hz		5		
	100 VAC, 50/60 Hz _____		6		
Interface:	not used			0	
	RS485 (PROFIBUS DP, MODBUS ASCII/RTU, SWANBUS) _____			2	

#### Technical data:

Dimensions:  
Transmitter: 180 x 140 x 70 mm  
Weight: 1.5 kg  
Case: Aluminium IP 66  
Ambient temperature: -10 to +50 °C  
Limit range of operation: -25 to +65 °C  
Storage and transport: -30 to +85 °C  
Data indication:  
LCD backlit, 15 mm high  
Connections: Strippable terminal blocks

#### 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  
instrument fault  
Two selectable alarm values  
Setting of alarm values by keypad

#### Serial interface:

RS485 with PROFIBUS DP according  
to DIN 19245 part 3  
or RS 485 with SWANBUS  
or RS485 with MODBUS ASCII/RTU

#### 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 l/h

#### 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

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

Signal input galvanically separated for  
OXYTRACE SC oxygen sensor  
Measuring range: Resolution:  
0.0 - 200 ppb 0.1 ppb  
0 - 2000 ppb 1 ppb  
0 - 20 ppm 0.01 ppm  
0 - 200% saturation 0.1% saturation  
Accuracy: ±2% of reading or ±0.2 ppb  
Repeatability:  
±1% of reading or ±0.15 ppb  
Response time:  
15 s (90%, rising concentration)  
Automatic range switching  
Automatic temperature compensation  
Automatic air pressure compensation  
Indication of membrane break and  
electrolyte exhaustion  
Calibration: at air

#### 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

### Connection scheme

