



## AquaSensor AS 8000

### Description

The AquaSensor AS 8000 has been developed to detect and measure the free water in mineral and lubrication fluids, i.e. water content in excess of the saturation point.

This sensor is designed for continuous online monitoring of the water content in volume percent (approx. 0.5% to 50%).

The signals are given via a decoder as a 4 ... 20mA signal, via an RS232 interface or as switching signals.

The parameters for the AS 8000 can be set easily via the RS 232 interface.

### Applications

- Steel plants
- Paper industry
- Mills
- Marine and offshore
- Dewatering systems
- Cooling systems

### Advantages

- Online monitoring of the volume of free water in the oil
- Possible to detect water ingress promptly, thus preventing malfunctions and damage to systems
- Reduces costs caused by downtimes and repairs

### Technical specifications

Measurement range (calibrated)	Water content: 0.5 - 50%, Temperature: 5 ... 80 °C
Accuracy	Water content: +/- 2%
Operating pressure	max. 10 bar (1.0 MPa)
Fluid temperature range	5 ... + 80 °C
Ambient temperature	0 ... 55 °C - Sensor 0 ... 80 °C - Decoder
Supply voltage	24 VDC (10...30 VDC), max. 100 mA, residual ripple <10 %
Analogue outputs	
Water content	2 x 4 ... 20 mA
Max. ohmic resistance	300 Ω (Ohm)
Switching outputs	3 x relays (1 x "ready" relay, 2 x relays for water content in vol-% programmable) max. 60V / 250 mA
Protection class	IP 20 Decoder IP 67 Sensor
Sensor material	2.0490

## Model code

**AS 8 0 3 0 - 1 - U**

### Type

AS = AquaSensor

### Measuring range

8 = water content in volume percent  
0.5 - 50 %

### Version

0 = 4-20 mA output and RS232 interface

### Housing

3 = for stationary use

### Fluids

0 = for standard mineral oils

### Cable lengths

1 = 8000 mm  
2 = 15000 mm

### Supply voltage

U = 24 VDC

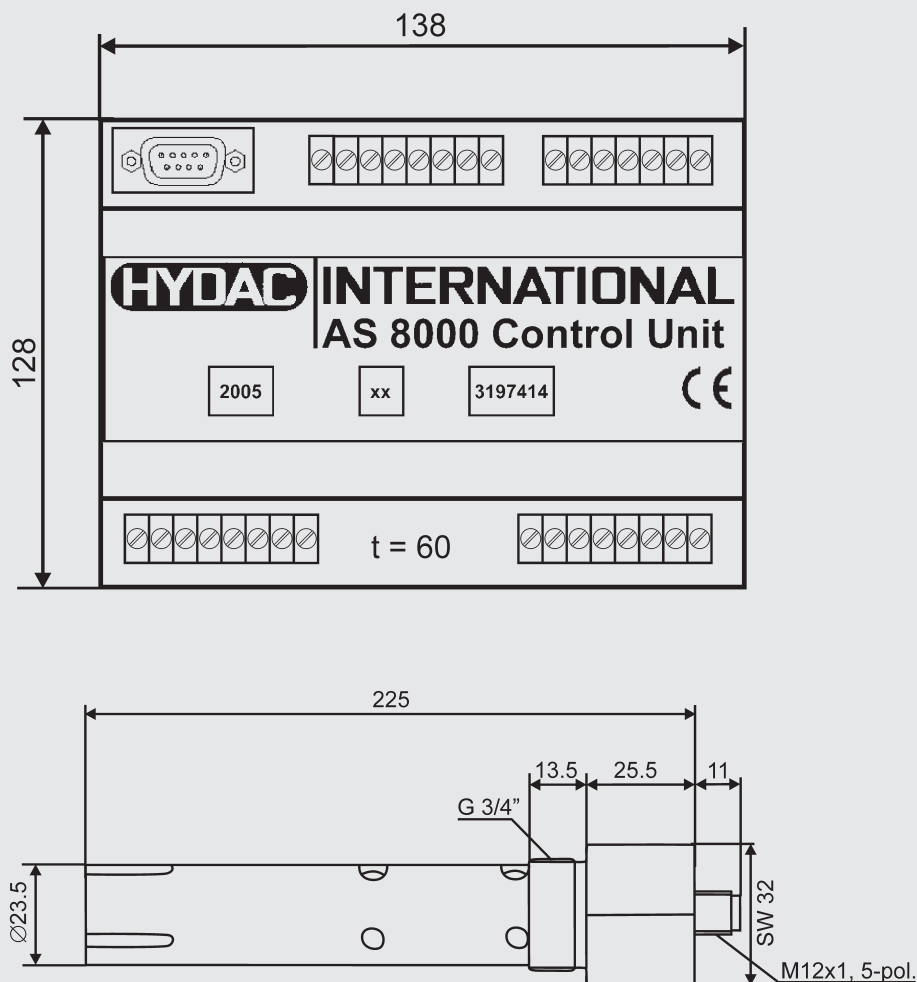
## Items supplied

- AS 8000 Sensor
- AS 8000 Control Unit (decoder) for 2 sensors
- Extension/connection cables
- Operating manual

## Accessories

- Second sensor

## Dimensions



## Note

The information in this brochure relates to the operating conditions and applications described.  
For applications and operating conditions not described, please contact the relevant technical department.  
Subject to technical modifications.

**HYDAC**