



## **WS 316 MMS**

**Refrigerated, intermediate measuring station with X-Y distributor**

**WaterSam®** A sampler with new ideas including a new vacuum dosing system that does away with the need for a switch-valve.

Comes ready for remote operation via GSM modem or GSM/GPRS modem.

The compact measuring station can be fitted with any of the following parameter measures plus a printer/logger : pH; conductivity; oxygen; redox; temperature; turbidity.



#### MicroSam

The control unit can cope with all your sampling needs including time, volume or event proportional sampling. Up to 9 different programmes can be run simultaneously.

Integral monitor protects the equipment and warns when servicing is needed.

Can send warning messages to designated mobile phone using SMS messaging.

The new X-Y distributor system delivers samples to a variety of bottle formats including:



16 x 2.9L  
12 x 2.9L + 1 x 12L  
5 x 6.4 L  
4 x 12 L  
36 x 1L  
as well as composites of various sizes

A special air circulation system ensures that the samples are maintained in optimal conditions within the storage cabinet in summer and winter.

The housing can be easily dismantled for easier servicing and eventual recycling. Electrical and mechanical components are positioned safely in the dry conditions above the wet system elements.

**Service** Our samplers are designed for ease of service. Our service personnel will take care of any problem that falls outside your own day to day care regime

#### Sales and service contact

**Phone** +49 (0)7472 9882 0  
**Fax** +49 (0)7472 9882 22  
**E-Mail** info@watersam.de  
**Internet** www.watersam.com

We reserve the right to make technical changes without notice. Error and omission expected.

### Technical Data - WS 316 MMS

Sampling Method	Air Vacuum Pump (Peristaltic pump upon request)
Dosing Bottle	DURAN 50 Borosilicate glass
Sample Volume	20 - 350 ml fixed (Option 20 - 600 ml fixed against surcharge)
Inlet Hose	Inside 12 mm Ø optional inside* 16 mm Ø
Sample lift height	7.5 m standard pump; 8 m large pump
Distributor	Direct dosing, freely programmable X - Y - distributor
Distributor hose	15 mm dia silicone
Pump	Vacuum- pressure with standard pump: 230 V AC; 14.5 l/min; -0.80 to 1 bar optional large pump: 230 V AC; 19l/min; -0.85 to 7 bar
Housing	Stainless steel: 1.4301 DIN X 5 CrNi 18 10 ; AISI 304 with 40mm insulation
Cooling unit	Compressor cooling 230 V AC; 160 W; refrigerant R 134a; CFC-free; automatic defrost
Heating unit	Electric heating in stainless steel case 230 V; 350 W with excess temperature protection 70°C
Thermostat	+ 4°C at an ambient temperature of -25°C to +42°C; temperature sensor Pt 100
Control	Microprocessor controlled, 4 button tactile back lighted keypad with 4 x 20col.LCD display, Real time clock, 5 year RAM battery back-up, overload protected outputs
Software	Menu driven <ul style="list-style-type: none"> <li>• 9 programmes simultaneously</li> <li>• Memory for errors, events and operation status</li> <li>• Preset programmes, easy to modify</li> <li>• Preset and free distributor settings</li> <li>• Log of event/operating details</li> <li>• Combination and interlinking programmes as standard feature</li> </ul>
Parameters	Choose from: pH; conductivity; temp; oxygen; redox; turbidity.
Signal inputs	Flowmeter: 0/4 - 20 mA or potential free contact. Event: Potential free contact
Electrical Data	Mains supply 230 V 50 Hz; Output max. 400 VA; Recommended safety fuse 16 A
Dimensions	Height = 1,540 mm Width = 655 mm (Width including fastening bar 720 mm) Depth = 740 mm 120 - 135 kg according to equipment

Produced by:

**WaterSam®**

WaterSam GmbH & Co. KG  
Felix-Wankel-Straße 70  
72108 Rottenburg am Neckar  
Germany