WATER
MONITORING
SOLUTIONS

2021 NEW
MULTI-SENSORS STATION

WASTEWATER   INDUSTRY   SURFACE WATER

BubbleFLO 2

3G / GPRS Portable Bubbler flowmeter

BubbleFLO 2

F1 F2 F3 F4

- Hydraulic Tables included

- Multifunctional keyboard and display

- Local recording and bi-directional 3G/GPRS communication

- Digital and numeric multi-sensor inputs

- 1 month battery life in bubbler configuration

WINFLUID NG

HYDREKA
www.hydreka.com
A **Halma** company

Picture: Sensors pluggable on the BubbleFLO 2

Applications

The BubbleFLO 2 flowmeter is used for several applications:

- o Wastewater network and natural environment diagnosis,
- o Wastewater treatment plant self-monitoring,
- o Control and regulatory monitoring of urban and industrial wastewater discharge in open channels,
- o Any flowmetering applications in specific environment (temperature gradients, fouling, foam…).

Benefits

Multifunctional keyboard and display

Hydraulic tables included

Recording site configuration

Multi-sensors

Measurement accuracy

Bubbler battery life

External power supply

3G / GPRS data transmission
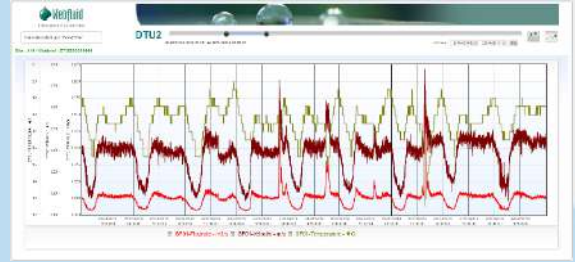
Robust

Winfluid NG Ecosystem

Connections

FLOWMETERING
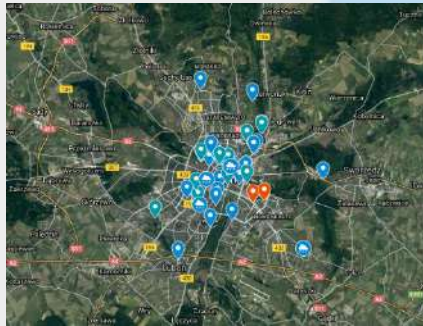
Overflow shutter

NEW

DVP Doppler Velocity Probes

Ultrasonic level sensor

NEW

Radar level sensor HR22

Available soon

Venturi channel

NEW

Physico-chemical probes

Pulse and Meters

NEW

Rain gauge

NEW

WATER QUALITY

COMMON DEVICE

Data Management

Webfluid NG Exploitating platform

Global sites

Graphs

Google Map visualization

Sites creation

Local recording

Alarms

CSV

FTPS

SFTP/FTP/FTPS (push & pull) or HTTP/HTTPS through API

Hydreka Server

BubbleFLO 2

CSV

Customer Server

FTPS
FTP

SCADA

Sampling

Technical specifications

Main characteristics		
Data Logging	Memory	o 128 Mbyte non-volatile memory o Up to 2 000 000 data points
	Frequency	From 5 seconds to 24 hours (depending on sensors connected)
Power supply	Internal	Lead battery – 12V 7Ah
	Autonomy	1 months (bubbler configuration)
	External	Optional external power supply
Additional inputs		Digital and numeric
Outputs		2 relay outputs
Communication		GPRS/3G communication or local by 2.0 USB cable
Operational	Software	Winfluid NG Ecosystem
	Display and keyboard	Ecran 3,6" display with keyboard (4 multifonction keys)
	Hydraulic tables	Programming by Winfluid NG software
Security		o Secured the local access using authentication through Winfluid NG to unlock the USB access (consult us) o Data secured by FTP/FTPS (push & pull)
Construction		Copolymer polypropylene
Dimensions		305 x 270 x 194 mm
Weight		5,3 kg (with battery)
Immersion		IP65 (suitcase closed)
Warranty		24 months

Sensors – Flowmetering		
Bubbler	Range	0 to 1m
	Accuracy	0,1% FS, temperature compensation
	Rate of bubble	1 bubble / second (depending on water height and compression cycle)
	Calibration	Direct by keyboard
	Purge	Automatic at start-up, every 6 hours and in case of bubbling air tube obstruction
	Tracking speed	o 14 cm/minute in 10 meters tube (4/6mm) o 9 cm/minute in 30 meters tube 4/6mm
	Maximum tube length	30 meters
Ultrasonic	Range	0 to 5 meters
	Accuracy	± 0,5% FS (at 25°C and at less than 2 x death band and liquid surface)
	Death band	0,2m
DVP	Range	Bi-directional 0.01 to 5 m/s
	Accuracy	o ± 2 % of reading if V ≥0.5m/s o ± 0.01 m/s if V<0.5m/s
	Minimum fluid level	15 mm to 20mm above base of sensor, provided transducers fully wetted
	Temperature measurement	-10 °C to +85 °C, accuracy : ± 0,5 °C
Others	Overflow shutter	Available with following diameter: 150, 200, 250 & 300mm, 53,8° angle
	Venturi	Several types available, up to 2500m³/h nominal flow

Sensors – Water quality		
pH/ORP	Range	0 – 14pH / ± 1000 mV
	Accuracy	± 0,1 pH / ± 2 mV
	Temperature	Range : 0°C à +50°C, accuracy : ± 0,5 °C
Conductivity/Salinity	Range	From 0 - 200 µS/cm to 200 mS/cm (per decade), automatic – Salinity: 5-60g/kg
	Accuracy	± 1% FS
	Temperature	Range : 0°C à +50°C, accuracy : ± 0,5 °C
Dissolved Oxygen	Range	0 – 20 ppm
	Accuracy	± 0,1 ppm
	Temperature	Range : 0°C à +50°C, accuracy : ± 0,5 °C
Turbidity	Range	0 - 50 to 0 - 4 000 NTU, automatic
	Accuracy	< 5% of the reading value
	Temperature	Range : 0°C à +50°C, accuracy : ± 0,5 °C

Sensors – Common devices	
Rain gauge	Tipping Bucket (0,2mm)
Pulse Meter	Simple, Net/Direction, +/-

Products available for sales and rental. Please contact us for more information.

HYDREKA
www.hydreka.com
A Halma company

51 avenue Rosa Parks
69009 Lyon – France

Tel : +33 (0)4 72 53 11 53
E-mail : hydreka@hydreka.fr