

WATER MONITORING SOLUTIONS

WASTEWATER

INDUSTRY

SURFACE WATER

MainFLO®

Open Channel
Doppler Flowmeter



- Measures from 0,01 to 5 m/s
- Bi-directional velocity measurement
- RS232 & Bluetooth communication
- Portable version
Up to 12 months battery life
- Flow measurement possible in very shallow water
- Velocity measurement with internal temperature measurement and real time speed of sound correction



HYDREKA
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Technical specifications



Portable MainFLO® Unit

Display		128 * 64 dot matrix display of real time data
Data Logging	<i>Memory</i>	[4 GB] non-volatile flash memory (Based on a measurement every 2 minutes, usage is 20kBytes per day)
	<i>Logged data</i>	Separate file for each day. Each record is: Velocity, Level, Flow, Flow Quality, Temperature, Speed of Sound
Internal Power Supply	<i>Battery</i>	7 Ah (optional 12 Ah) lead acid battery
	<i>Battery life</i>	Typically 6 months for 7 Ah battery with a reading every 2 minutes Actual autonomy will be reduced by excessive use of display and Bluetooth
External Power Supply	<i>Mains supply</i>	For long term requirements and trickle charging of battery: 9 – 28 VDC
	<i>Consumption</i>	6 mA at 12 VDC on standby, 40 mA at 12 VDC for measurement plus any battery charging required
Outputs		2 * contact closure outputs can be used as alarms or dosing output
Real Time Clock		Integral clock with backup power for 20 minutes if no main battery or external power
Digital Connection		RS232/USB and integral Bluetooth
Flow Calculation		Area-velocity calculation for flow. If velocity measurement "quality is poor" or "height lower than" then flow calculation can be based on level and stage characteristics
Settings		Delayed Start, Sampling Cycle Time, Alarms, Dosing, Units, Level Calibration, Stage Calibration, Bluetooth Control, Display Control, Language
Software		MainFLO software
Operating temperature		-20 to +60 °C (-4 °F to 140 °F)
Enclosure		Rugged Copolymer Polypropylene carrying case
Dimensions		124mm (4.88 in) * 246mm (9.68 in) * 270mm (10.63 in)
Weight		5 kg
Immersion		IP67
Warranty		24 months (up to 36 months with an extended warranty)



Stationary MainFLO® Unit

Display		128 * 64 dot matrix display of real time data
Data Logging	<i>Memory</i>	[4 GB] non-volatile flash memory (Based on a measurement every 2 minutes, usage is 20kBytes per day)
	<i>Logged data</i>	Separate file for each day. Each record is: Velocity, Level, Flow, Flow Quality, Temperature, Speed of Sound
Power Supply		0-28Vdc
Outputs		2 * contact closure outputs can be used as alarms or dosing output 4 * 4-20mA outputs
Digital Connection		RS232/USB and integral Bluetooth
Flow Calculation		Area-velocity calculation for flow. If velocity measurement "quality is poor" or "height lower than" then flow calculation can be based on level and stage characteristics
Settings		Delayed Start, Sampling Cycle Time, Alarms, Dosing, Units, Level Calibration, Stage Calibration, Bluetooth Control, Display Control, Language
Software		MainFLO software
Operating temperature		-20 to +60 °C
Enclosure		Aluminum
Dimensions		82mm (3.23 in) high * 150mm (5.91 in) wide * 222mm (8.74 in) long
Weight		2,5kg
Immersion		IP67
Warranty		24 months (up to 36 months with an extended warranty)



Immersed pressure transducer

Level



Non contact ultrasonic transducer (Available on stationary version only)

<i>Range</i>	0-150mBar or 0-350mBar Other range in option – ATEX version in option
<i>Accuracy</i>	0,1% FS
<i>Range</i>	0.3 to 8 m
<i>Resolution</i>	Maximum from 0,1%FS or 2mm
<i>Accuracy</i>	1mm + 0,17% of the mesured distance
<i>Beam angle</i>	10°

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

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