

# WATER MONITORING SOLUTIONS



*Transit time Ultrasonic Pipe Flowmeter*

## **ChronoFLO® Mini**



- Flow measured from DN 15 mm (0,049 ft)
- Measurement accuracy: up to  $\pm 0,5\%$
- Ease of installation, less than 5 minutes
- Non-intrusive flow measurement
- Waterproof (IP67/IP68)
- Drinking and wastewater

**HYDREKA**  
[www.hydreka.com](http://www.hydreka.com)

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# Applications

The ChronoFLO Mini is used for the following applications:

- o Diagnosis of drinking water and wastewater networks,
- o DMA (leak detection monitoring),
- o Checking existing flow meters,
- o Calibration of lift pumps,
- o Volume quantification.

# Technical specifications

<b>Measurement range</b>		o Two-way up to 25 m/s (82.02ft/s) o Certified measurement for MEAS value < 20% in the fluid
<b>Accuracy</b>		In steady-state flow: o ±1 to 2% of the reading without calibration. depending on the application o ±0.5% of the reading with calibration
<b>Standalone operation</b>		25 hours continuously or 3 weeks in low power mode with 1 measurement/minute
<b>CPU</b>	<b>Memory</b>	416 900 data points
	<b>Language</b>	English, French. For other languages, please contact us
<b>Power supply</b>	<b>Internal</b>	Rechargeable lithium polymer batteries
	<b>External</b>	Mains or battery
<b>Outputs</b>	<b>Communication</b>	Mini USB & RS232
	<b>Digital</b>	1 * Relay for Totalizer and Alarms
	<b>Analogue</b>	1 * Current Output (Scalable Isolated 4-20mA)
<b>Communication</b>		By Mini USB - USB cable (text file). Datas can be directly import into a spreadsheet
<b>Sensors</b>	<b>1 MHz (standard)</b>	DN between 50 mm and 2000 mm (0.16 to 6.56 ft) with 2.9 m (9.51 ft) or 30 m (98.43 ft) cable (optional)
	<b>4 MHz (optional)</b>	DN between 15 mm and 100 mm (0.049 to 0.33 ft) with 2.9 m (9.51 ft) or 30 m (98.43 ft) cable (optional)
	<b>0,5 MHz (optional)</b>	DN between 500 mm and 3000 mm (1.64 to 9.84 ft) with 2.9 m cable
<b>Installation</b>		o Mounting rail with chains for diameters < 2000 mm (6.56ft) o Optional: Straps for large diameters or magnetic adapters for metal pipes
<b>Operating temperature</b>		o Sensors: -40 to +120 °C (-40 to 248°F) o CPU: -10 to +50°C (14 to 122°F)
<b>Storage temperature</b>		-20 to +50°C (-4 to 122°F)
<b>Waterproofing</b>		o Sensors: IP68 o CPU: IP67
<b>Standard kit</b>		o Central unit, power supply and shoulder strap pair of 1MHz clamp-on sensor and mounting rail o Couplant, retractable tape, bubble level, USB <--> USB Mini adaptor and transit case
<b>Pipe thickness gauge (optional)</b>	<b>Measurement range</b>	Variable (depending on pipe material), up to 50 mm (1.96in)
	<b>Precision</b>	0.1 mm (0.004in)
<b>Dimensions</b>		o 1 MHz sensors: 75 x 30 x 45 mm (0.25 x 0.098 x 0.15 ft) o CPU: 182 x 115 x 34 mm (0.60 x 0.37 x 0.11 ft)
<b>Weight</b>		Kit: 2.9 kg
<b>Compatible pipes</b>		Metals, glass, and sonically conductive homogeneous polymers/plastics Lining Bitumen, glass, epoxy paint and most concrete liners. Excludes loose liners
<b>Warranty</b>		24 months
<b>Calibration</b>		Performed annually at the factory on our COFRAC standard hydraulic calibration rig
<b>Metrological certification</b>		Calibrated using electromagnetic flow meters (100 and 200 mm) calibrated according to COFRAC procedures

ChronoFLO Mini V.1 – EN – 04/17 – Hydreka reserves the right to modify product technical characteristics without notice.

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