



Teledyne Valeport Water

An Introduction

September 2024

Introduction

- Who?
- Where?
- What?
- Why?



TELEDYNE
VALEPORT WATER
Everywhereyoulook™

Why Valeport Water?

- **The importance of water is increasingly recognised**
- **We have the technology relevant to this industry**
 - Flowmeters – Impeller | Electromagnetic | Doppler
 - Optical Sensors – Fluorometry | Turbidity
 - Water Quality Sensors– Optical, Conductivity, Temperature, pH
- **There is a current and expanding market for this technology**
 - Domestically and globally
 - Partnership opportunities with other Teledyne companies
 - Teledyne Water group of companies

Markets

- **Drinking Water**
- **Wastewater**
- **Surface and Ground Water**
- **Industrial Water**
- **Flow in Pipes and Open Channel**
- **Environmental \ Water Quality**
- **Data telemetry and hosting**
- **Survey**
 - Hydrological
 - Hydrogeological
- **Civil Engineering**
 - Leak tracing
 - River erosion
 - Site monitoring

Key products

- **Series 800**

Flow sensors for pipes and open channels
Open protocols

- **Hyperion**

Optical - Fluorometry and Turbidity

- **Loggers and Data Telemetry**

EnviroLog and EnviroLog 4G



Flowmeters – Type 804

Electromagnetic Insertion Flowmeters



Operations

- Flow monitoring for ‘clean’ water:
 - in a full pipe
- District Monitoring Area control
- Metering
 - Post Treatment & Pumping Stations
- Leak Detection
- Hot tap installation with safety chain
 - Permanent installation
 - Temporary deployment



Flowmeters – Type 804

Electromagnetic Insertion Flowmeters



Flowmeters – Type 810 (ATEX)

Continuous Wave Doppler Flowmeter



Operations

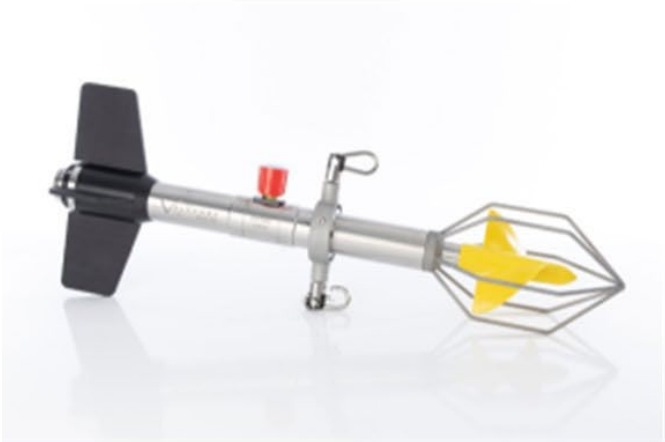
- In Pipe and Open Channel Flow Monitoring for
 - Industrial & Treatment plants | Wastewater networks | Sewers | Canals | Rivers | Streams
 - Effluent & Discharge surveys
 - Flood & CSO monitoring
 - Stand-alone & Integrated Solutions
 - ◆ Permanent installation | Temporary deployment

Flowmeters – Type 810 (ATEX) Continuous Wave Doppler Flowmeter



Flowmeters

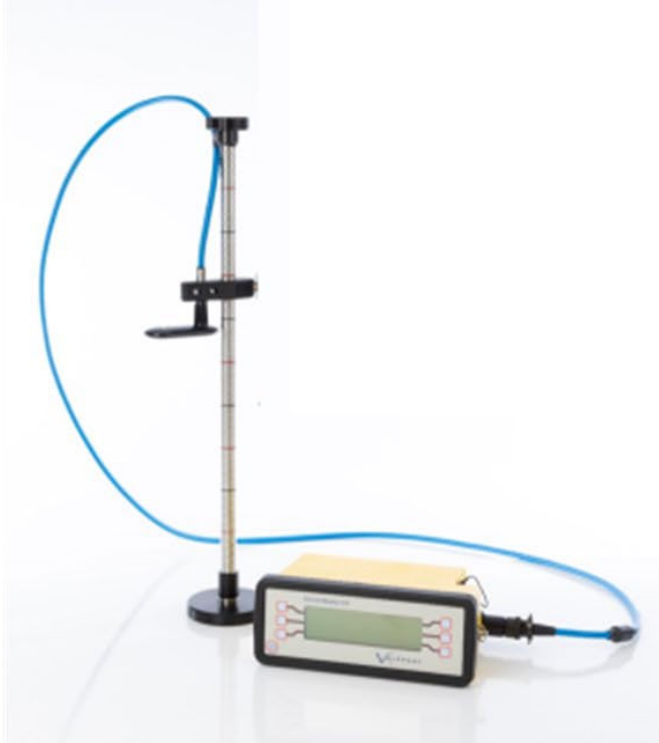
Impeller & EM Flowmeters



Model 106



Model 001



Model 801

Hyperion Optical Sensors

Available now:

- Turbidity
(Nephelometer & Backscatter)
- Chlorophyll a
- Phycocyanin
(freshwater cyanobacteria)
- fDOM (CDOM)
- Crude Oil
- Fluorescein
- Sulforhodamine B
- Rhodamine WT

Under Development:

- Tryptophan
- Phycoerythrin
(marine Cyanobacteria)
- Optical Brighteners
- Refined Oil
- Tracer Dyes
 - Sodium Naphthionate
 - Eosine Gamma
 - PTSA



EnviroLog

- Robust, self-contained logger system for environmental sensors
- Battery Life

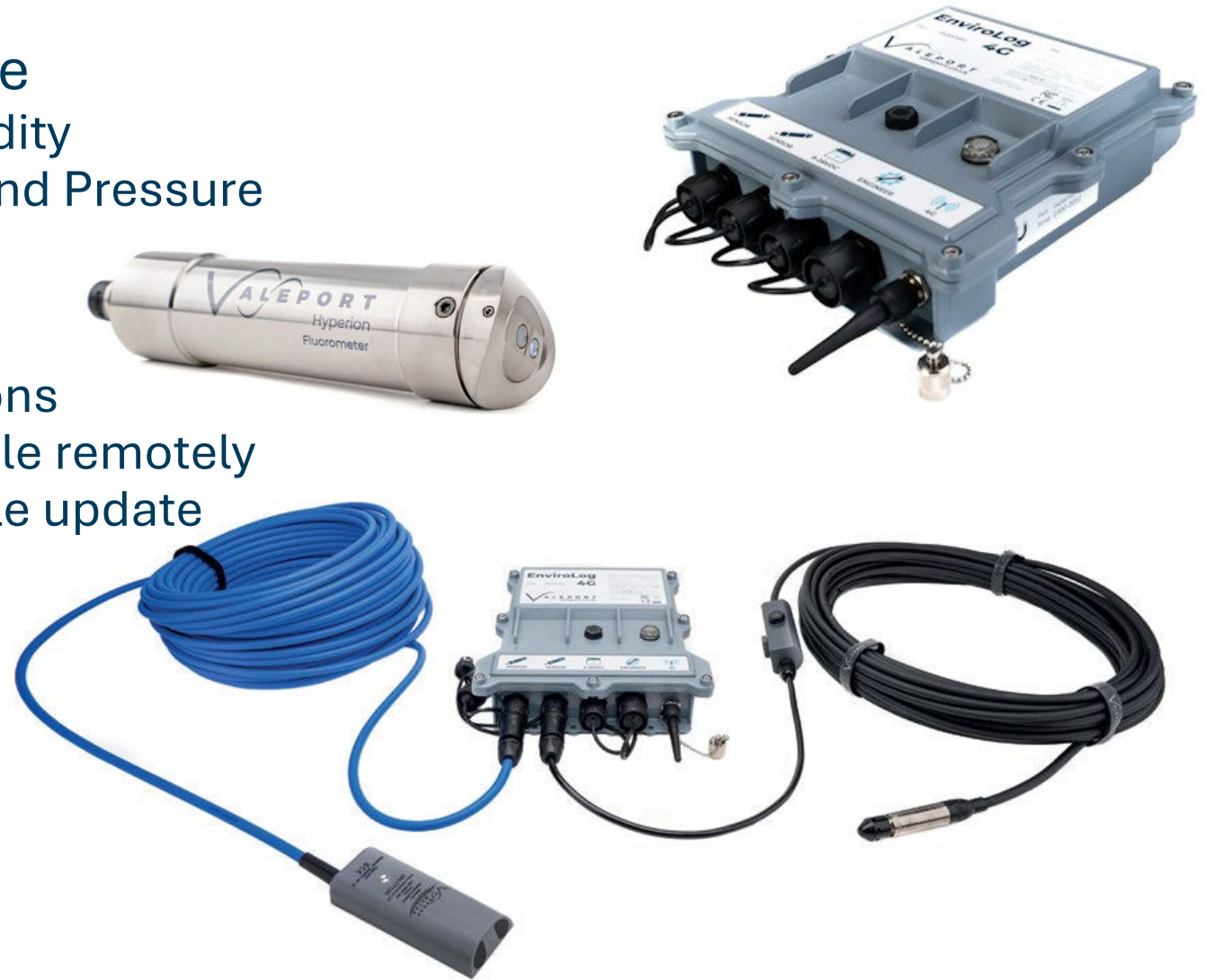
12Ah battery (no use of display or Bluetooth)

- 1x Hyperion sensor
 - 1x observation every 5 minutes
 - expected battery life: ~ 6 months
- 3x Hyperion sensors
 - 1x observation every 10 minutes (all 3 instruments)
 - expected battery life: ~ 4.5 months



EnviroLog 4G

- Multiple instrument interface
 - Hyperion – Fluorometer | Turbidity
 - Type 810 Doppler Flowmeter and Pressure
- Programmable
- 4G data telemetry
 - secure two-way communications
 - reprogram observation schedule remotely
 - intelligent observation schedule update
 - Special modes
- Logging
- Internal battery
- Data hosting solutions



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 - Environmental – optical, conductivity, temperature, pH
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Making Sense of Water



TELEDYNE MARINE
Everywhere you look™

Teledyne Valeport Water

Thank you

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