



 **RAPHAEL**

Product brochure

## **APOLLO**

Smart telemetry solutions for remote monitoring, water control and sewage infrastructure



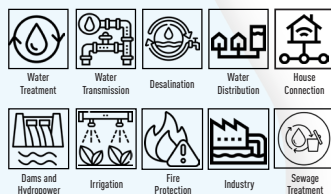
# APOLLO

## SMART MOBILE DATA LOGGER



- └ APOLLO is a Smart Data Logger designed to enable monitoring and control of a wide range of parameters in the municipal and agricultural water networks.
- └ APOLLO has IP68 rating and super low power consumption.
- └ APOLLO contains digital and analog inputs to read water meters, flow meters, valves controlling and real time monitoring.
- └ APOLLO robust design allows the product to work in harsh environmental conditions with high humidity, such as sewage pits and water tanks.
- └ APOLLO supports different types of IoT communication protocols.
- └ APOLLO is installed in large amount of projects and utilities all over the world.

### APPLICATIONS



### TECHNICAL DATA

- └ 4 digital inputs
- └ 2 digital outputs
- └ 2 analogue inputs
- └ ModBus RS485
- └ Built-in pressure sensors
- └ Pressure sensors range 0-10/0-20 bar
- └ IP68
- └ 2G/3G/4G NB-IoT/LTE-M Modems
- └ Internal memory of 90,000 values
- └ Product life - up to 10 years
- └ Option to connect external voltage or solar panel

### MAIN APPLICATIONS

- └ Level monitoring sewage trenches and water pools and alerts in case of level deviation
- └ Flow reading and cumulative reading of water meters
- └ Measuring pressure in transmission lines accurately and quickly
- └ Remote opening and closing of control valves
- └ Location of water hammer in order to minimize damage to pipes
- └ Consult for specific applications according to your need: size, temperature, turbidity, chlorine, etc.

### FEATURES

- └ Remote monitoring of the level of manholes
- └ Pressure control
- └ Monitoring of water distribution
- └ Leak detection
- └ Web/Network Interface
- └ On-line continues flow monitoring
- └ Automatic alerts
- └ Wide range of solutions for municipal market

## ZEUS WEB - WEB INTERFACE

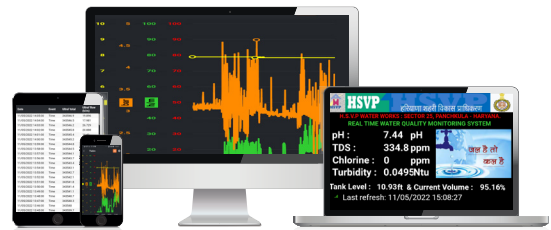


The APOLLO is supported by a friendly and intuitive web interface called ZEUS WEB.

The ZEUS WEB interface enables real-time alerts and a wide range of reports and graphs.

ZEUS WEB Main Features:

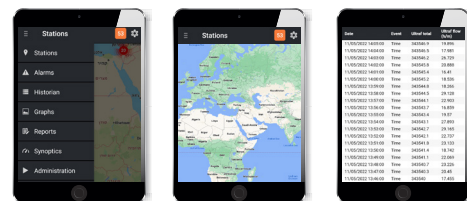
- └ Dedicated cloud based server
- └ Bi- directional communications for remote sending of commands
- └ Intuitive HMI screens
- └ Data export to PDF and Excel files
- └ Data hosting for analytical evaluations
- └ Support for integration with existing customer systems
- └ Support in eight different languages



## ZEUS MOBILE – ADVANCE MOBILE APPLICATION



The mobile application ZEUS MOBILE allows the user to view data and information same as the ZEUS WEB but via a dedicated application on the mobile phone.



## INSTALLATIONS AROUND THE WORLD



TEMPERATURE  
CONTROL



SEWAGE PIT LEVEL  
MONITORING

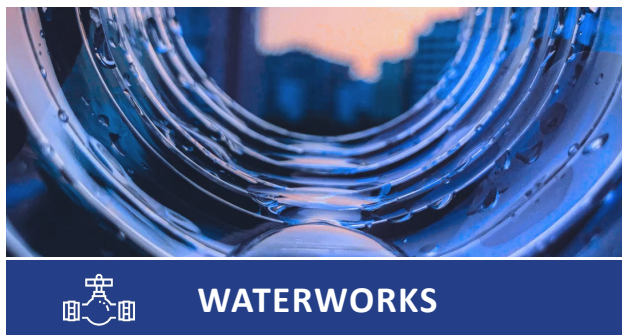


WATER TRANSMISSION



FLOW & PRESSURE CONTROL





**RAPHAEL VALVES INDUSTRIES (1975) LTD**, founded in 1949, is the first Israeli manufacturer of water control valves. RAPHAEL's research department constantly strives to introduce new and innovative products and solutions for water control systems including water works, fire-protection and irrigation systems and other fields.

**RAPHAEL Valves Industries (1975) Ltd.**

North Industrial Zone

Or Akiva, 3065401

POBox 555, Israel

**Phone:** +972 4 6263555

**E-mail:** [info@raphael-valves.com](mailto:info@raphael-valves.com)

**Website:** [www.raphael-valves.com](http://www.raphael-valves.com)



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