



SMART SOLUTIONS

APOLLO

Smart Data Logger

Smart Solutions Product Catalog

APOLLO

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



ADVANTAGES

The APOLLO is a smart data logger designed for monitoring and controlling a wide range of parameters in municipal water networks.

- Rated IP68, making it fully protected against dust and long-term water immersion
- Features ultra-low power consumption for extended field operation
- Equipped with digital and analog inputs for:
 - Water meter reading
 - Flow meter monitoring
 - Valve control
 - Real-time data tracking
- Built with a robust design to operate reliably in harsh environments, including high-humidity areas like sewage pits and water tanks
- Supports multiple IoT communication protocols for flexible integration
- Widely deployed globally across numerous projects and utility networks

MAIN APPLICATIONS

- Level monitoring of 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 water and sewage levels
- 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

Technical Data

- 4 digital inputs
- 2 digital outputs
- 2 analog 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 150,000 values
- Product life - up to 10 years
- Option to connect external voltage or solar panel

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 - Advanced 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.



ACCESSORIES



FI00-N

Intelligent capacitive sensor for reliable detection of overflow events in wastewater networks



THOR-2

Module for driving two Latch type solenoids. 12VDC / 2-wire



EXCALIBUR M1

High performance GSM IP68 antenna. Designed for operation in manholes and confined spaces



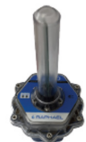
VEGAPULS C11 / C21 / C22

Radar sensor for level measurement of liquids and bulk solids



Y200-LP

Ultrasonic sensor for level water measurement without contact



APOLLO

IP68 battery pack compatible with Nemox N200+14.4 VDC / 13Ah

Installations Around the World



Temperature Control



Sewage pit level monitoring

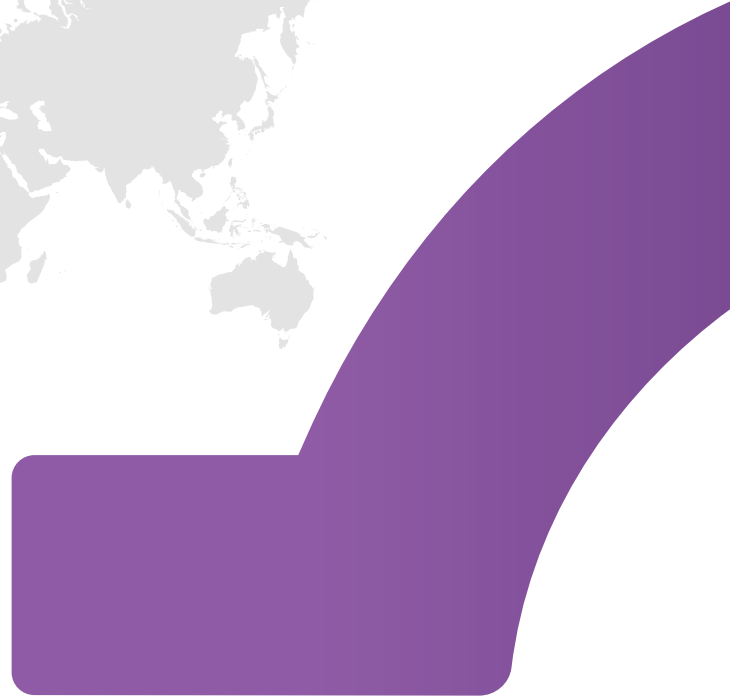


Water transmission



Flow & Pressure control

Providing advanced solutions to customers around the world
North America | South America | Europe | Africa | Asia | Australia



RAPHAEL, 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.



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