



PRODUCT  
DATASHEET '25

# ADVANCE ANALYTIK

REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



**Viz Classic  
Hardness**

**Single Channel Transmitter**

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[www.advanceanalytik.com](http://www.advanceanalytik.com)  
[sales@advanceanalytik.com](mailto:sales@advanceanalytik.com)

# Viz Classic

## Single Channel Transmitter

The Viz Classic Series single channel transmitter is engineered for precision measurement of Hardness in various industrial processes.

The Viz Classic Series is ideal for use in water and wastewater treatment, chemical manufacturing, pulp and paper, food and beverage, and other industries where precise hardness control is vital.



## Product Features

**Single-Channel Design:** Dedicated to Hardness measurement, delivering reliable, real-time monitoring of critical parameters.

**Input for RS485 sensors with four wires**

**Temperature Measure with NTC10K/PT1000 Probe**

**Programming key board with 5keys**

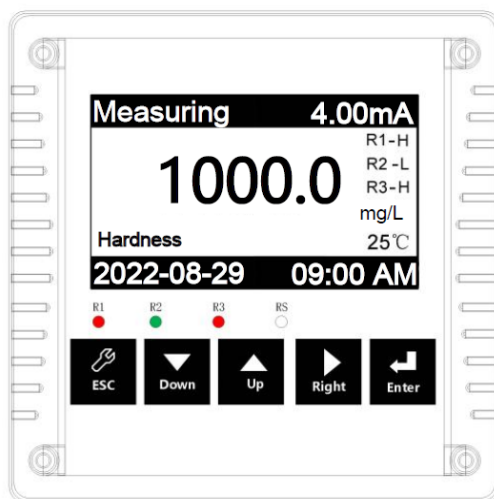
**Serial Output RS485 MODBUS RTU**

**2 Programmable Analog Outputs**

**2 Frequency Programmable Digital Outputs**

**3 Relay Outputs for Intervention Thresholds, Wash and Remote Alarm**





## Technical Specification of VIZ Classic Series Transmitter

### Viz Classic - Single Channel Transmitter

<b>OUTPUTS</b>	2 Programmable Analog Outputs 2 Frequency Programmable Digital Outputs 3 Relay Outputs (high low point trigger, 3A/250VAC) for Intervention Thresholds, Wash and Remote Alarm
<b>INPUTS</b>	Hardness - Digital Type sensor with 4 wires
<b>MOUNTING</b>	Wall mount / Panel mount
<b>MEASURE RANGE</b>	mg/L, ppm, ppb, NTU , Percent, pH, mV, mm/a, uS/cm, mS/cm, PSU, etc
<b>POWER SUPPLY</b>	100-240VAC, 50/60HZ; Consumption 5W
<b>TEMPERATURE MEASURE</b>	NTC10K or PT1000
<b>COMMUNICATION INTERFACE</b>	<ul style="list-style-type: none"> <li>• Device Diagnostics: Includes basic device and process diagnostics</li> <li>• Digital Communication: Two-way communication for calibration, configuration, and diagnostics</li> <li>• Protocol Support: RS 485 Modbus</li> </ul>
<b>TEMPERATURE</b>	0 to 50 deg C
<b>ENCLOSURE</b>	IP65 for Wall mount, or Only front facia IP65 for Panel Mount
<b>CALIBRATION</b>	Dual Point Sensor Calibration
<b>CABLE CONNECTIONS</b>	Polyurethane Glands: 2Nos
<b>DIMENSIONS</b>	144*144*115mm L*W*H
<b>CUT-OFF DIMENSIONS</b>	138*138 mm



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## **VizSens-(Hd) LR**

**Online Hardness Sensor**

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# VizSens-(Hd) LR

## Online Low Range Hardness Sensor

The VizSens-Hd hardness sensor uses a PVC membrane based calcium and magnesium ion selective electrode to test the hardness of water, with temperature compensation to ensure that the test is fast, simple, accurate and economical.

### Working Principle

The integrated online total hardness sensor is made of calcium and magnesium selective electrode based on PVC membrane, which is used to test the total hardness in water (calcium + magnesium), with temperature compensation to ensure that the test is fast, simple and Precise and economical.

Signal output: RS-485 bus, Modbus/RTU protocol, easy to connect to third-party equipment such as PLC, DCS, industrial control computer, general controller, paperless recording instrument or touch screen.

Patented calcium magnesium ion electrode, the internal reference liquid seeps out from the microporous salt bridge extremely slowly under the pressure of at least 100KPa (1Bar). Such a reference system is very stable, and the electrode life is longer than that of ordinary industrial electrodes.

Easy to install: 3/4" NPT thread, easy to submerge or install in pipes and tanks.



### Advantages

High measurement accuracy and sensitivity.  
Fast response and short measurement time.  
Easy to use and easy to maintain.  
Continuous on-line monitoring can be achieved

### Applications

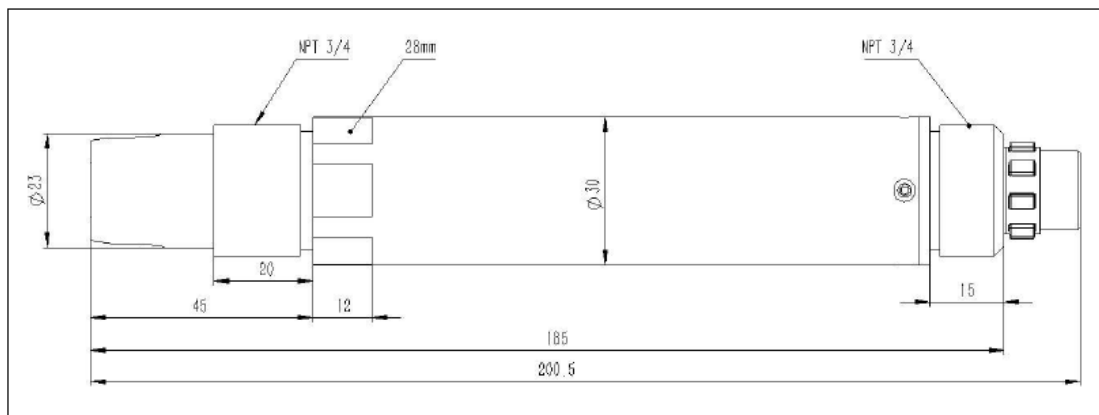
Industrial Wastewater  
Drinking water  
Surface water  
Boiler feedwater  
Condensate and cooling water  
Process water



# VizSens (Hd) LR

## Technical Specifications

Basic Specifications	
Hardness and pH Range	0 – 10 mg/L
Accuracy and Resolution	±2%F.S.;
Temp compensation	Auto temperature compensation(Pt1000)
Power supply and Consumption	12~24 VDC; 0.2W 12V
Calibration	2-point Calibration
Storage and Working Conditions	-5 – 40°C; 0~40°C, <0.1MPa
Signal output	RS-485(Modbus/RTU) & 4-20mA
Cable length	5 Meters
Body; Threading; IP Rating	SS316L; 3/4" NPT Thread; IP 68



# APPLICATIONS



**Aquaculture Farms**  
Maintain Hd levels in fish tanks for optimal aquatic conditions.



**Drinking Water Quality**  
Ensure safe drinking water by monitoring Hd levels in water sources.



**Environmental Research**  
Assess Hd concentrations in water bodies to study pollution and ecosystem health.



**Agriculture and Irrigation**  
Monitor Hd levels in irrigation water to optimize nutrient supply to crops.



**Scientific Laboratories**  
Conduct Hd analysis for research and educational purposes.



**Industrial Processes**  
Control Hd concentrations in wastewater to meet environmental regulations.



## Note -

*This data sheet serves as general information about the VizSens-(Hd). For specific technical details, installation guidelines, and troubleshooting assistance, please refer to the official user manual provided with the product.*

*For inquiries and detailed technical information, please contact [sales@advanceanalytik.com](mailto:sales@advanceanalytik.com).*



# LET'S CONNECT!

Let's work together to find a solution that works for you



## Contact Us :

+36 70328 6862

1024, KeletiKarolyutca 48. fszt.

Budapest

<https://advanceanalytik.com>

[sales@advanceanalytik.com](mailto:sales@advanceanalytik.com)

