



PRODUCT
DATASHEET '24

ADVANCE ANALYTIK

REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



Viz Eco Multi Multi Channel Transmitter

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Viz Eco Multi

Multi-Channel Transmitter

The Viz Eco Multi is a multi-channel transmitter that offers an advanced solution for monitoring multiple parameters simultaneously, meeting a variety of customer needs.

Designed for applications in water quality monitoring across wastewater treatment plants, waterworks, water stations, surface water, and industrial settings, this versatile transmitter brings unparalleled flexibility and ease of use to the field. With support for up to 7 sensors, various data transmission options, and a user-friendly interface, the Viz Eco Multi ensures efficient integration, reduced operational costs, and reliable parameter monitoring.



Product Features

- Enhanced Sensor Integration:** Connect up to 7 sensors to streamline integration and decrease operating and maintenance expenses.
- Sensor Compatibility:** Accommodates both digital sensor interfaces and analog sensors with configurable options.
- Effortless Sensor Management:** Quick and convenient electrode installation and replacement through sensor plugs and simplified operations.
- Versatile Data Transmission:** Multiple data transmission methods, including 4~20mA, MODBUS RS485, and wireless transmission (optional), ensure seamless connectivity.
- Intuitive Touch Screen:** A user-friendly 7-inch color touchscreen provides simple operation, quick familiarization, and dependable system control, all with low maintenance requirements.
- Dynamic Parameter Monitoring:** Benefit from data storage functions for real-time monitoring of parameter dynamics.
- Error and Alarm Management:** Indicates automatic reminders for errors and alarm information.
- User Access Control:** Three levels of management authority provide enhanced security and access control.
- Flexible Mounting Options:** Choose between wall mounting or panel mounting to suit different installation environments.
- Wireless Connectivity:** Optional wireless data transmission module empowers remote monitoring and control.



Parameter Specification of VIZ Eco Series Transmitter

PARAMETER	RANGE <i>(Other ranges available on request)</i>
pH	0-14 pH
Conductivity	0-20 mS/cm
ORP	+/-2000 mV
Dissolved Oxygen	0-20 mg/l or 0-200% saturation
TDS	0-20000 ppm
Turbidity	0.01-4000 NTU
Suspended Solids/Sludge	0.01 - 20000 mg/L
Chlorophyll	0-500 ug/L
Blue Green Algae	0-300000 cells/mL
Oil in Water	0-50 ppm
Ammonia Nitrogen (NH4N)	0.1-3000 mg/L NH4N
Nitrate Nitrogen (NO3N)	0-3000 mg/L NO3N
Residual Chlorine	0-20 mg/L
UV Visible Measurement	COD : 0-5000 mg/L
	BOD : 0-5000 mg/L
	TSS : 0-5000 mg/L
	TOC : 0-5000 mg/L
	<i>(Other parameters available on request)</i>
Temperature	0-80°C
ISE	Ammonia (NH3) : 0.01 - 17,000 ppm as NH3
	Cyanide (CN-) : 0.2 - 260 ppm
	Fluoride (F-) : 0.02 - 19000 ppm
	Sodium (Na+) : 0.01 - 100,000 ppm
	Chloride (Cl-) : 1.8 - 35,000 ppm
	Water Hardness (Ca2+ / Mg2+) : 0.5 - 40,000 ppm
	<i>(Other ISE available on request)</i>



Parts Reference

Viz Eco Multi

Multi Channel Universal Controller

Up to 7 sensors can be connected to improve integration and reduce operating and maintenance costs.

High versatility, all digital sensor interfaces and analog sensors can be configured with different modules.

Memory: With 16 GB SD card data storage.

Have three levels of management authority.

Display: 7-inch touch screen with LED strong backlight, can be operated in direct sunlight.

Main material: Glass-filled nylon synthetic polyamide thermoplastic (top cover); Aluminum powder dusting (lower shell).

Relay: 4 SPDT relays.

Power supply: 90-260 VAC, DC : 9 - 36 VDC.

Output: 8 x 4-20 mA, MODBUS RS485, wireless transmission(optional) 4G : UDP/TCP NB: UDP.

Rating : IP65/NEMA4X

Dimensions: 260mm*200mm*123.3mm (L×W×H) Mounting lugs for wall and panel mounting.

ORDERING CODE	DESCRIPTION
VizSens-TurbLo	Low Turbidity Sensor Range: 0.001 - 100 NTU Cable Length - Standard 3m (Maximum can be extended to 30m)
VizSens-NO3N	Nitrate Nitrogen Sensor Range: 0-3000 mg/L NO3N Cable Length - Standard 5m (Maximum can be extended to 100m)
VizSens-NH4N	Ammonia Nitrogen Sensor Range: 0.1-3000 mg/L NH4N Cable Length - Standard 5m (Maximum can be extended to 100m)
VizSens-OIW	Oil in Water Sensor Range: 0-50 ppm Cable Length - Standard 10m (Maximum can be extended to 50m)
VizSens-BGA	Blue Green Algae Sensor Range: 0-300000 cells/mL Cable Length - Standard 10m (Maximum can be extended to 100m)
VizSens-CPHL	Chlorophyll Sensor Range: 0-500 ug/L Cable Length - Standard 10m (Maximum can be extended to 100m)
VizSens-Turb	Optical Turbidity Sensor Range: 0.01 - 4000 NTU Cable Length - Standard 10m (Maximum can be extended to 100m)
VizSens-SS	Suspended Solids/Sludge Sensor Range: 0.01-20000 mg/L Cable Length - Standard 10m (Maximum can be extended to 100m)



ORDERING CODE	DESCRIPTION
VizSens-UV	COD Range: 0-5000 mg/L BOD Range: 0-5000 mg/L TSS Range: 0-5000 mg/L TOC Range: 0-5000 mg/L Cable Length - Standard 10m (Maximum can be extended to 100m)
VizSens-RCL	Residual Chlorine Sensor Range: 0-20 mg/L Cable Length - Standard 10m (Maximum can be extended to 100m)
VizSens-ODO	Optical DO Sensor Range: 0-20 mg/L or 0-200% saturation Cable Length - Standard 10m (Maximum can be extended to 100m)
VizSens-EC (Digital)	Digital Conductivity Sensor Range: 0-20 mS/cm Cable Length - Standard 10m (Maximum can be extended to 200m)
VizSens-EC (Analog)	Analog Conductivity Sensor Range: 0-20 mS/cm Cable Length - Standard 10m (Maximum can be extended to 20m)
VizSens-pH (Digital)	Digital pH Sensor Range : 0-14 pH Cable Length - Standard 10m (Maximum can be extended to 200m)
VizSens-pH (Analog)	Analog pH Sensor Range : 0-14 pH Cable Length - Standard 10m (Maximum can be extended to 20m)
VizSens-ORP (Analog)	Analog ORP Sensor Range: -/+ 2000 mV Cable Length - Standard 10m (Maximum can be extended to 20m)
VizSens-TDS (Analog)	Analog TDS Sensor Range: 0-20000 ppm Cable Length - Standard 10m (Maximum can be extended to 20m)
VizSens-ISE-NH3	Ammonia (NH ₃) Range: 0.01 - 17,000 ppm as NH ₃
VizSens-ISE-CN-	Cyanide (CN ⁻) Range: 0.2 - 260 ppm
VizSens-ISE-F-	Fluoride (F ⁻) Range : 0.02 - 19000 ppm
VizSens-ISE-Na+	Sodium (Na ⁺) Range : 0.01 - 100,000 ppm
VizSens-ISE-Cl-	Chloride (Cl ⁻) Range : 1.8 - 35,000 ppm
VizSens-ISE-Ca ²⁺ /Mg ²⁺	Water Hardness (Ca ²⁺ / Mg ²⁺) Range : 0.5 - 40,000 ppm



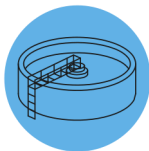
Viz Eco Multi

Technical Specifications

Electrical Specifications	
Power Supply	AC: 85 - 265 VAC; DC: 9 - 36 VDC
Communication Protocol	MODBUS RS485 (standard), 4G: UDP/TCP, NB: UDP (optional)
Physical Specifications	
Main Material	(Glass-filled nylon synthetic polyamide thermoplastic) (top cover); Aluminum powder dusting (lower shell)
Protective Rate	IP65/ NEMA4X
Dimensions	260mm x 200mm x 123.3mm (L*W*H)
Weight	2.0KG
Environmental Specifications	
Operating temperature	-15 to 60°C
Supported Parameters and Sensors	
Supported Sensors	Up to 7 sensors
Display and Interface	
Screen	7-inch color touch screen
User Interface	Intuitive and user-friendly menu
Data Transmission	
Transmission Methods	4~20mA, MODBUS RS485, Wireless (optional)
Output	
Analog Output	8 x 4-20mA active output (load of 500 ohm max)
Relay	4 x electromechanical SPDT (Form C) contact, 5 A Programmable individually for high or low alarm.



APPLICATIONS



Water Treatment Plants

The Viz Eco Multi ensures accurate parameter monitoring, contributing to effective wastewater treatment processes and regulatory compliance.



Waterworks and Water Stations

In water supply systems, the Viz Eco Multi maintains optimal water quality, enhancing public health and safety.



Surface Water Monitoring

This transmitter supports continuous monitoring of surface water bodies, aiding environmental assessment and protection.



Industrial Process Control

Industries benefit from the Viz Eco Multi by closely monitoring water quality for production processes and environmental responsibility.



Note -

This data sheet serves as general information about the VIZ ECO MULTI CHANNEL TRANSMITTER. 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.



LET'S CONNECT!

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



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