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REVOLUTIONIZING ONLINE MONITORING SOLUTIONS



## **Viz Eco Duo** **Dual Channel Transmitter**

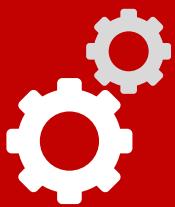
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# Viz Eco Duo

## Dual Channel Transmitter

The Viz-Eco-Duo Parameter Transmitter is an advanced solution for simultaneous monitoring of diverse parameters, catering to a wide range of customer requirements. Compatible with multiple different sensors such as pH, DO, ORP, conductivity, turbidity, SS, COD, BOD, TOC, TSS, Nitrate, Nitrite, Color, Sludge Level, ISE and others, this device offers versatility for a wide range of applications. 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 2 sensors, various data transmission options, and a user-friendly interface, the Viz-Eco-Duo ensures efficient integration, reduced operational costs, and reliable parameter monitoring.



## Product Features

- Enables plug-and-play sensor functionality with fast and convenient electrode installation and replacement.
- Easy to operate with reliable results and intuitive interface instructions to minimize operational errors.
- LCD screen with a user-friendly navigation menu and rich, comprehensive interface content.
- Multiple data output options, including 4-20mA and MODBUS RS485.
- Automatic error and alarm notifications with signal upload capabilities.
- Versatile transmitter supports wall, panel, pipe, or pole installation.
- Features include real-time display, data storage, and historical data viewing.

## Parameter Specification of VIZ Eco Series Transmitter

PARAMETER	RANGE (Other ranges available on request)
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
	(Other parameters available on request)
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 (Ca <sup>2+</sup> / Mg <sup>2+</sup> ) : 0.5 - 40,000 ppm
	(Other ISE available on request)



## Parts Reference

### Viz Eco Duo

#### Dual Channel Universal Controller

**Display:** 128\*64 Graphic Dot matrix LCD 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)

**Output:** 2 x 4-20mA analog output

**Relay:** Two relays SPDT contact

**Communication protocol:** Equipped with MODBUS RS485 communication function

**Power supply:** AC power supply: 80 - 265 VAC (50/60Hz); DC power supply: 9-36VDC

**Enclosure:** IP65/Nema4x

**Dimensions:** 145\*125\*162mm(L\*W\*H)

Mounting lugs for wall

**Memory:** 16 GB Memory Card Slot (Stores 1 Year measurement Data)

Depending upon measurement cycle frequency.

*\*Memory card can be made available upon request\**

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



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

# Technical Specification of VIZ Eco Series Transmitter

## Viz Eco Duo - Dual Channel Transmitter

<b>INPUTS</b>	Select any two Sensor (Digital/Analog/ISE) pH - Analog, Digital ORP - Analog, Digital Chlorine Sensor - Potentiometric/ISE Conductivity/Total Dissolved solids - Analog/Digital Dissolved Oxygen - Optical (Digital Type) Turbidity - Optical (Digital Type) Sludge Level - Optical (Digital Type) UV-VIS Sensor - Any One - COD,BOD,TOC,TSS,Nitrate,Nitrite,Color Total Suspended solids - IR Based Ion Selective Electrode - Analog
<b>OUTPUTS</b>	<b>2 x 4-20mA active output (load of 500 ohm max)</b>
<b>RELAYS</b>	<b>2 x electromechanical SPDT (form C) contact, 5 A Programmable individually For high or low alarm.</b>
<b>MEMORY</b>	<b>16 GB Memory Card Slot (Stores 1 Year measurement Data)</b> Depending upon measurement cycle frequency. <i>*Memory card can be made available upon request*</i>
<b>POWER SUPPLY</b>	<b>AC power supply: 80 - 265 VAC (50/60Hz); DC power supply: 9-36VDC</b>
<b>DISPLAY</b>	<b>128*64 dot matrix LCD with LED backlight</b>
<b>COMMUNICATION INTERFACE</b>	<b>Modbus RS485, 4-20mA</b>
<b>CERTIFICATIONS</b>	<b>IP65/NEMA4X</b>
<b>ENCLOSURE</b>	<b>Glass-filled nylon synthetic polyamide thermoplastic (top cover); Aluminum powder dusting (lower shell)</b>
<b>DIMENSIONS</b>	<b>145 x 125 x 162 mm L*W*H</b>
<b>WEIGHT</b>	<b>1.5Kg</b>
<b>OPERATING TEMPERATURE</b>	<b>-15 to 60°C</b>

# APPLICATIONS



## Water Treatment Plants

For monitoring water quality in treatment processes and ensuring compliance with regulatory standards.



## Environmental Monitoring

For assessing water quality in natural ecosystems, identifying pollution sources, and protecting aquatic biodiversity.



## Aquaculture Farms

To maintain optimal conditions for aquatic life, allowing for healthy growth and production.



## Research Institutions

For conducting scientific studies related to water quality and environmental monitoring.



## Industrial Process Control

For quality control in industrial processes that involve water usage.



## Wastewater Treatment

To monitor and optimize the efficiency of wastewater treatment processes.



## Food and Beverage Production

For ensuring the quality of water used in food and beverage production, meeting industry standards.



### Note -

This data sheet serves as general information about the DUAL CHANNEL CONTROLLER. 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



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