



GE-131MP

Multi-Parameter Monitor

Applications: Power Station、Petrochemical、Metallurgy、Mining industry、Paper industry、Fermentation Engineering、Medicine、Food & Beverage、Environmentally friendly water treatment、Aquaculture、Modern farming.

Instrument Features

- Flexibility, reliability and low maintenance
- 128*64 Large LCD display
- Menu operation mode
- Temperature compensation
- Four group of alarm relay
- Two groups output
- RS485//RS232 Communication Interface Optional
- Password protection

Technique features

- (1) Measuring range:
- pH: 0~14.00pH;
 ORP: -1999~+1999mV;
 Conductivity: 0~20 μS/cm K=0.01
 Conductivity: 0~200 μS/cm K=0.1
 Conductivity: 0~10mS/cm K=1.0
 Conductivity: 0~20mS/cm K=10.0

Conductivity: 0~100mS/cm K=30.0
 Temperature: -5~110.0°C;

- (2) Resolution:
 pH: 0.001pH; ORP: 1mV;
 Conductivity: 0.001μS/cm; 0.01 mS/cm;
 Temperature: 0.1°C;
- (3) The basic error:
 pH: ±0.01pH; ORP: ±2mV;
 Conductivity: ±0.5%F·S;
 Temperature: ±0.3°C;
- (4) The temperature compensation range:
 0~110°C;
- (5) The stability:
 pH: ≤0.02pH/24h;
 ORP: ≤2mV/24h;
 Conductivity: ±0.2%F·S/24h;
- (6) Current output:
 0~10mA (load resistance <1.5KΩ);
 4~20mA (load resistance <750Ω);
- (7) Four group of alarm relay:
 3A 240VAC, 6A 28VDC 或 120VAC;
- (8) Power supply:
 220VAC±10%, 50±1Hz,
 power consumption≤3W;
 24VDC, power consumption: ≤1W;
- (9) The dimension:
 96(length)×96(width)×125(depth)mm;
- (10) Installation way: panel installation;
 The tapping size of electronic unit:
 91×91mm;
- (11) Optional features optional:
 RS485//RS232 Communication Interface,
- (12) The electronic unit weight: 0.6kg;
- (13) Operating conditions :
 Ambient temperature : -10~60°C;
 Relative humidity: no bigger than 90%;
 There are no corrosive gas around;
 There are no other magnetic fields or
 electromagnetic fields which produce
 the negative effect except the earth
 magnetic field.



GE-132 PH/ORP meter

Applications: Power plant、Petrochemical、Metallurgy、Mining industry、Paper industry、Fermentation Engineering、Medicine、Food & Beverage、Environmentally friendly water treatment、Aquaculture、Modern farming.

Instrument Features

- 128*64 Large LCD display
- Flexibility, reliability and low maintenance
- Menu operation mode
- Temperature compensation
- Two group of alarm relay
- RS485//RS232 Communication Interface Optional
- Temperature output current signal optional
- Password protection

Technique features

- (1) Measuring range:
pH: 0~14.00pH;
ORP: -1999~+1999mV;
Temperature: -5~110.0℃;
- (2) Resolution:
pH: 0.001pH;
ORP: 1mV;
Temperature: 0.1℃;
- (3) The basic error:

pH: $\pm 0.01\text{pH}$;
ORP: $\pm 2\text{mV}$;
Temperature: $\pm 0.3\text{℃}$;

- (4) The temperature compensation range:
0~110℃;
- (5) The stability:
pH: $\leq 0.02\text{pH}/24\text{h}$;
ORP: $\leq 2\text{mV}/24\text{h}$;
- (6) Current output:
0~10mA (load resistance $< 1.5\text{K}\Omega$);
4~20mA (load resistance $< 750\Omega$);
- (7) Two group of alarm relay:
3A 240VAC, 6A 28VDC 或 120VAC;
- (8) Power supply optional:
220VAC $\pm 10\%$, 50 $\pm 1\text{Hz}$,
power consumption $\leq 3\text{W}$;
or 24VDC, power consumption: $\leq 1\text{W}$;
- (9) The dimension:
96(length) \times 96(width) \times 130(depth)mm;
- (10) Installation way: panel installation;
The tapping size of electronic unit:
91 \times 91mm;
- (11) Optional features optional 1:
RS485//RS232 Communication Interface;
- (12) Optional features optional 2:
Temperature signal output: 0~100℃;
- (13) The electronic unit weight: 0.6kg;
- (14) Operating conditions :
Ambient temperature : -10~60℃;
Relative humidity: no bigger than 90%;
There are no corrosive gas around;

PH/ORP Electrode:

- * PHD-01: 1-14PH 0~80C glass electrode for sewage, industry water, river water
- * PHD-02: 1-14PH 0~80C glass electrode for pure water, Boiler water
- * PHD-03: 1-14PH 0~80C Antimony electrode for Hydrofluoric water
- * PHD-04: 1-14PH 0~130C PTFE glass electrode for High Temperature water
- * PHD-05: 1-14PH 0~130C Easyferm Plus 120 electrode for Fermentation & Medicine



GE-133

Conductivity meter

Applications: Power Station、Petrochemical、Metallurgy、Mining industry、Paper industry、Fermentation Engineering、Medicine、Food & Beverage、Environmentally friendly water treatment、Aquaculture、Modern farming.

Instrument Features

- Flexibility, reliability and low maintenance
- **128*64** Large LCD display
- Menu operation mode
- Temperature compensation
- Two group of alarm relay
- **RS485//RS232** Communication Interface Optional
- Temperature output current signal optional
- Password protection

Technique features

(1) Measuring range:

Conductivity:	0~20 μS/cm	K=0.01
Conductivity:	0~200 μS/cm	K=0.1
Conductivity:	0~10mS/cm	K=1.0
Conductivity:	0~20mS/cm	K=10.0
Conductivity:	0~100mS/cm	K=30.0
Temperature:	-5~110.0℃;	

- (2) Resolution:
Conductivity: 0.001μS/cm; 0.01 mS/cm;
Temperature: 0.1℃;
- (3) The basic error:
Conductivity: ±0.5%F·S;
Temperature: ±0.3℃;
- (4) The temperature compensation range:
0~110℃;
- (5) The stability: ±0.2%F·S/24h;
- (6) Current output:
0~10mA (load resistance < 1.5KΩ);
4~20mA (load resistance < 750Ω);
- (7) Two group of alarm relay:
3A 240VAC, 6A 28VDC 或 120VAC;
- (8) Power supply:
220VAC±10%, 50±1Hz,
power consumption≤3W;
or 24VDC, power consumption: ≤1W;
- (9) The dimension:
96(length)×96(width)×130(depth)mm;
- (10) Installation way: panel installation;
The tapping size of electronic unit:
91×91mm;
- (11) Optional features optional 1:
RS485//RS232 Communication Interface;
- (12) Optional features optional 2:
Temperature signal output: 0~100℃;
- (13) The electronic unit weight: 0.6kg;
- (14) Operating conditions :
Ambient temperature : -10~60℃;
Relative humidity: no bigger than 90%;
There are no corrosive gas around;

Conductivity Electrode:

* CED-01:	0~20μS/cm	K=0.01	0~60C
* CED-02:	0~200μS/cm	K=0.1	0~60C
* CED-03:	0~20μS/cm	K=0.01	0~150C
* CED-04:	0~200μS/cm	K=0.1	0~150C
* CED-05:	0~1000μS/cm	K=1.0	0~60C
* CED-06:	0~20mS/cm	K=10.0	0~60C
* CED-07:	0~100mS/cm	K=30	0~150C



GE-134

Dissolved oxygen meter

Applications: Power Station、Petrochemical、Metallurgy、Mining industry、Paper industry、Fermentation Engineering、Medicine、Food & Beverage、Environmentally friendly water treatment、Aquaculture、Modern farming.

Instrument Features

- Flexibility, reliability and low maintenance
- **128*64** Large LCD display
- Menu operation mode
- Temperature compensation
- Two group of alarm relay
- RS485//RS232 Communication Interface Optional
- Temperature output current signal optional
- Password protection

Technique features

- (1) Measuring range:
Dissolved oxygen: 0.2~25.0mg/L;
0.0~200μg/L;
temperature: -5~110.0℃;
- (2) Resolution:
Dissolved oxygen: 0.01mg/L; 0.1μg/L;
temperature: 0.1℃;
- (3) The basic error:

Dissolved oxygen: $\pm 0.2\text{mg/LF} \cdot \text{S}$;
 $\pm 0.2\mu\text{g/LF} \cdot \text{S}$;
temperature: $\pm 0.3\text{℃}$;

- (4) The automatic or manual temperature compensation range: 0~110℃;
- (5) The remain signal of electrode: <1%;
- (6) Response time(90%final):
<60seconds(25℃) or <30seconds(35℃);
- (7) The stability:
<2%F·S every week(normal temperature and normal pressure)
- (8) Current output:
0~10mA (load resistance <1.5KΩ);
4~20mA (load resistance <750Ω);
- (9) Two group of alarm relay:
3A 240VAC, 6A 28VDC 或 120VAC;
- (10) power supply:
220VAC±10%, 50±1Hz,
power consumption≤3W;
24VDC, power consumption: ≤1W;
- (11) The dimension:
96(length)×96(width)×130(depth)mm;
- (12) Installation way: panel installation;
The tapping size of electronic unit:
91×91mm;
- (13) Optional features optional 1:
RS485//RS232 Communication Interface;
- (14) Optional features optional 2:
Temperature signal output: 0~100℃;
- (15) The electronic unit weight: 0.6kg;
- (16) Operating conditions :
Ambient temperature : -10~60℃;
Relative humidity: no bigger than 90%;

Dissolved Oxygen Electrode:

- * **SOD-01:** 0.2 ~ 25mg/L 0~60C (sewage, industry water, fishpond water);
- * **SOD-02:** 0 ~ 200μg/L 0.2 ~ 25mg/L 0 ~110C (Boiler Deaerator, trace oxygen water);
- * **SOD-03:** 0 ~ 200μg/L 0.2 ~ 25mg/L 0 ~130C (Fermentation & Medicine)

GE-135 Luminescent Optical Dissolved Oxygen Analyzer

(Water Online Industry Monitor Meter)

This Dissolved Oxygen analyzer uses unique luminescent optical technology to measure dissolved oxygen in water and waste water applications. The optical dissolved oxygen meter has been specifically designed to meet the demanding requirements of the environmental monitoring and scientific research sectors, providing long term, accurate and reliable dissolved oxygen measurement. The output could be 4-20mA, and RS485 is optional, the relay is adjustable in high/low limit

This A.YITE GE-135 Luminescent optical dissolved oxygen analyzer meter have an accuracy of $\pm 1\%$. Measurements are automatically compensated for temperature, pressure, and salinity. Measurements didn't require flow & stir like other technologies.



Applications for Optical Dissolved Oxygen Analyzer:

- * Water quality monitoring around industrial outfall
- * Scientific research projects, both long and short term projects
- * Long term monitoring of dissolved oxygen in streams, rivers and lakes
- * Fish farm and aquaculture water quality monitoring
- * Homeland security & Food and wine industry
- * Wastewater industry & Thermocline profiling

Character:

- * No consumable components
- * Luminescent optical principle, sensitive and stability
- * No consume oxygen, No requirement for stir and flow
- * No interference from sulfide and other chemicals
- * The sensor is ppb ppm grade, suitable for all kinds of water treatment
- * Easy install & low maintenance

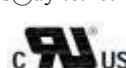
Specification:

- * Range: 0~20mg/L
- * Resolution: 0.01ppm
- * Accuracy: $\pm 1.0\%$ or 0.05mg/L
- * Temperature: 0 ~ 65C (for sensor)
- * Response Time: 45s (99%)
- * Temperature Compensation: 0 ~ 60C automatically
- * Display: LCD big screen
- * Output: 4~20mA

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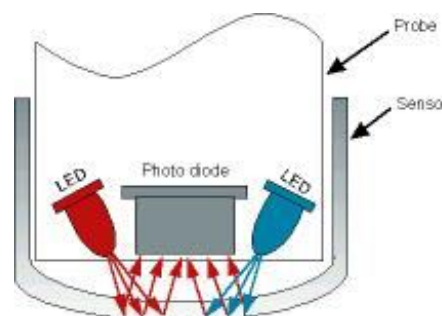
Email: sales@ayite.net



- * Communication: RS-485 (Optional)
- * Relay: adjustable in high/low limit, 230VAC 5A
- * Power Supply: 24VDC 220~240VAC (110VAC in optional)
- * Environmental Temperature & Humidity: -20C ~ 50C; 3% ~ 85%
- * Protect Grade: IP65 for transmitter; IP68 for sensor

Principle - Optical Dissolved Oxygen Meter

Unlike conventional dissolved oxygen analyzer meter, the A.YITE GE-135 Luminescent optical dissolved oxygen analyzer meter's sensing element utilizes fluorescence to measure dissolved oxygen. The sensing element in the optical dissolved oxygen transmitter consists of a fluorescing compound suspended stably in a robust optical "window". A light source at controlled wavelength briefly pulses the optical window. This "excites" the fluorescent material, causing it to emit a specific wavelength of light. The intensity of this fluorescence or light is determined by the amount of dissolved oxygen in the water in contact with the optical window. A highly stable and accurate optical sensor circuit inside the A.YITE GE-135 Luminescent optical dissolved oxygen analyzer meter measures the emitted fluorescence. As a result, the A.YITE GE-135 Luminescent optical dissolved oxygen analyzer meter provides accurate dissolved oxygen measurements over long periods of time without the need for re-calibration.



Advantages than Traditional Dissolved Oxygen Sensors

Traditional Galvanic and Polarographic dissolved oxygen sensors have been used to measure dissolved oxygen in water. Galvanic and polarographic dissolved oxygen sensors utilize chemical electrical signatures based on a semi-permeable membrane covering electrodes that are immersed in an electrolyte. These dissolved oxygen sensors have been poorly suited to long term reliable and accurate monitoring of lakes, streams, and rivers. The semi-permeable membranes and electrolyte require frequent replacement. The Galvanic and Polarographic dissolved oxygen sensor electrodes are subject to deterioration and "poisoning". These dissolved oxygen sensors require constant water flow otherwise oxygen consumption occurs causing inaccurate readings. Galvanic and Polarographic dissolved oxygen sensors require frequent calibration resulting in high upkeep and labor costs.

Unlike conventional Galvanic and Polarographic dissolved oxygen sensors, the A.YITE GE-135 Luminescent optical dissolved oxygen analyzer meter have no consumable components that require replacement, minimizing servicing requirements. Neither do the A.YITE GE-135 Luminescent optical dissolved oxygen analyzer meter consume oxygen. Consequently the measurement of dissolved oxygen by the optical dissolved oxygen sensor is unaffected by water flow.



GE-136 Acid & Alkali Concentration Meter

Applications: Power Station、Petrochemical、Metallurgy、Mining industry、Paper industry、Fermentation Engineering、Medicine、Food & Beverage、Environmentally friendly water treatment、Aquaculture、Modern farming。

Instrument Features

- * Flexibility, reliability and low maintenance
- * Temperature compensation automatically
- * 2 alarm relay, 4~20mA or 0~10mA
- * High / Low Limit control & hysteresis control
- * RS485//RS232 Communication Optional
- * Menu operation mode & Password protection

Technique features

1. Measuring Range:
 - * Concentration: 0~10% for acid; 0~15% for alkali;
 - * Medium: HCl, sulfuric acid H₂SO₄, NaOH, NaCl, HNO₃, Na₂CO₃
 - * Temperature: -5C ~ 110.0C
2. Resolution:
 - * Concentration: 0.01%
 - * Temperature: 0.1C
3. The Basic Error:
 - * Concentration: $\pm 0.25\%$ FS;

- * Temperature: $\pm 0.3C$
- (4) The automatic or manual temperature compensation range: 0~110°C;
- (5) The remain signal of electrode: <1%;
- (6) Response time(90%final):
<60seconds(25°C) or <30seconds(35°C);
- (7) The stability: $\pm 0.25\%$ 24hours
- (8) Current output:
 - 0~10mA (load resistance <1.5K Ω);
 - 4~20mA (load resistance <750 Ω);
- (9) Two group of alarm relay:
 - 3A 240VAC, 6A 28VDC 或 120VAC;
- (10) power supply:
 - 220VAC $\pm 10\%$, 50 ± 1 Hz,
 - power consumption ≤ 3 W;
 - 24VDC, power consumption: ≤ 1 W;
- (11) The dimension:
 - 96(length) \times 96(width) \times 130(depth)mm;
- (12) Installation way: panel installation;
The tapping size of electronic unit:
91 \times 91mm;
- (13) Optional features optional 1:
 - RS485//RS232 Communication Interface;
- (14) Optional features optional 2:
 - Temperature signal output: 0~100°C;
- (15) The electronic unit weight: 0.6kg;
- (16) Operating conditions :
 - Ambient temperature : -10~60°C;
 - Relative humidity: no bigger than 90%;



GE-137

Residual Chlorine Analyzer Monitor Meter

Applications:

- * Water Disinfection & Drinking Water system
- * Cooling tower chlorine monitoring and control
- * Swimming pool chlorination control,
- * Continuous chlorine monitoring
- * Water treatment plant residual chlorine control
- * Secondary chlorination free chlorine control
- * Distribution monitoring for total residual chlorine
- * Seawater chlorination control & monitor
- * Chlorine monitor in seawater

Instrument Features:

- * 2 Electrode for Chlorine and PH,
- * Flexibility, reliability and low maintenance
- * PH & Temperature compensation
- * 2 alarm relay
- * 128*64 Large LCD display
- * RS485//RS232 Communication Interface Optional
- * Menu operation mode & Password protection

Technology Features :

- (1) Measuring range:
 - * 0.0 mg/L ~ 2.0mg/L; 0.0 mg/L ~ 5.0mg/L;
 - 0.0 mg/L ~ 10.0mg/L; 0.0 mg/L ~ 20.0mg/L;
 - * Temperature: -5C ~ 60.0C
- (2) Resolution:
 - * Residual Chlorine: 0.001mg/L

- * Temperature: 0.1C
- (3) The basic error:
 - * Residual Chlorine: $\pm 1.0\%$ FS;
 - * Temperature: $\pm 0.3C$
- (4) The automatic PH compensation range:
 - * PH5.0 ~ PH9.0;
- (5) The remain signal of electrode: $< 1\%$;
- (6) Response time(90%final): < 90 seconds;
- (7) Current output:
 - 0~10mA (load resistance $< 1.5K \Omega$);
 - 4~20mA (load resistance $< 750 \Omega$);
- (8) Two group of alarm relay:
 - 3A 240VAC, 6A 28VDC 或 120VAC;
- (9) power supply:
 - 220VAC $\pm 10\%$, 50 ± 1 Hz,
 - power consumption $\leq 3W$;
 - 12V/24VDC, power consumption: $\leq 1W$;
- (11) The dimension:
 - 96(length) \times 96(width) \times 130(depth)mm;
- (12) Installation way: panel installation;
The tapping size of electronic unit:
91 \times 91mm;
- (13) Optional features optional 1:
RS485//RS232 Communication Interface;
- (14) The electronic unit weight: 0.6kg;
- (15) Operating conditions :
 - Ambient temperature : $-10 \sim 60^{\circ}C$;
 - Relative humidity: no bigger than 90%;
 - There are no corrosive gas around;



Chlorine Electrode

PH Electrode



Flow Through Cell with Double Electrode

MLSS Suspended Solids Sludge Concentration Meter

(GE-138 Water Online Industry Monitor Analyzer)

Adopting the optical principle of infrared light's scattering and absorption, the transmitter could get the concentration of suspended solids and sludge. The MLSS sensor directs some focused beams into the monitored water, The light beams reflects off particles in the water, and the resultant light intensity is measured by the MLSS sensor's photodetector. The suspended solid concentration is directly proportional to the scattering and absorption, when the infrared light go through the liquid.

The MLSS suspended solids concentration meter is suitable for the measurement of suspended solids (sludge) concentration in municipal sewage or industrial wastewater treatment process, it is one industry online analytical instruments. It could used to monitor the concentration of sludge in the waste water treatment, control the sludge discharge in primary and secondary sedimentation tank, control the automatic reagent feeding system in sludge thickening tank and sludge dewatering. it could avoid the water quality deterioration and sludge denitrification & digestion.



Character:

- * Multiple beam compensate with each other, eliminate error, improve the precision
- * Easy install, stability, low maintenance
- * The function of air blow cleaning for the transmitter
- * 4~20mA isolating current output, high/low limit alarm
- * Automatic diagnosis, easy calibration

Specification:

- * Measure Range: 0 ~ 15g/L ~ 30g/L ~ 100g/L
- * Accuracy: $\pm 2.0\%$; $\pm 0.05\text{g/L FS}$
- * Resolution: 1mg/L
- * Response time: 10s (adjustable)
- * Display: LCD screen

- * Output: 4~20mA 750 ohme max
- * Communication: RS485 (Optional)
- * Replay: max 230V/5A, adjustable high/low limit
- * Work Temperature: 0~50C
- * Work Humidity: 3% ~ 85%
- * Protect Grade: IP68 for sensor, IP65 for transmitter
- * Power Supply: AC110V AC220V DC24V
- * Material: SS304 SS316 for sensor
- * Medium Temperature: 0~65C

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GE-139 Turbidity Monitor Meter

(Water Turbidometer Nephelometer Online Industry Analyzer)

According to the Light scattering theory, the scattering of light was thought of as the redirection of light that takes place when an electromagnetic wave (i.e. an incident light ray) encounters an obstacle or non-homogeneity, the turbidity concentration is directly proportional to the scattering of light, when the light goes through the liquid, as per this theory. The turbidity sensor directs a focused beam into the monitored water, the light beam reflects off particles in the water, and the resultant light intensity is measured by the turbidity sensor's photodetector. The light intensity detected by the turbidity sensor is directly proportional to the turbidity of the water.

It is one industry grade online analytical instrument, it offers a suitable solution for the monitoring of final effluent water discharge to ensure compliance with Environmental Agency regulations. The Turbidity Measurement Meter is suitable for the monitoring of turbidity concentration in Water Treatment Plant, Reservoir, Sewage Treatment Plant, water quality testing and management, river monitoring, stream measurement, reservoir water quality testing, groundwater testing, water and wastewater treatment, and effluent and industrial control.



Character:

- * Clear the air bubble automatically, higher accuracy and stability
- * Easy install, stability,
- * Easy maintenance, calibrate each 3 month
- * Better Repeatability, no affect from flow and pressure
- * 4~20mA isolating current output, high/low limit alarm
- * Automatic diagnosis, easy calibration
- * Measure units: NTU, FTU, TE/F, mg/L

Specification:

- * Measure Range: 0~10NTU~100NTU (Low Range); 0~400NTU~4000NTU (High Range)
- * Accuracy: $\pm 1.0\%$; $\pm 0.1\text{NTU}$ for low range, $\pm 1\text{NTU}$ for high range

- * Resolution: 0.01NTU for low range, 0.1NTU for high range
- * Repeatability: 1%; 0.05NTU
- * Response time: 65s (adjustable)
- * Display: LCD screen
- * Output: 4~20mA 750 ohm max
- * Communication: RS485 (Optional)
- * Relay: max 230V/5A, adjustable high/low limit
- * Work Temperature: -20C~50C
- * Work Humidity: 3% ~ 85%
- * Power Supply: AC110V AC220V DC24V
- * Protect Grade: IP68 for sensor, IP65 for transmitter
- * Material: PVC PPR for sensor
- * Medium Temperature: 0~65C

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