LABTECH
ELECTRONICS PVT. LTD.
PRECISION IN EVERY PROCESS

ONLINE LIQUID ANALYSER



Advanced Sensing. Intelligent Analysis.
Complete Process Assurance.

Labtech Online Liquid Analysers deliver precise, real-time insights for critical process control across industries. Engineered for performance, built for reliability, designed for the future.

CHEMICAL & PETROCHEMICAL | POWER GENERATION | WATER & WASTEWATER | OIL & GAS | PHARMACEUTICAL & BIOTECH



OUR ONLINE LIQUID ANALYSER RANGE

- **pH / ORP** Analysers
- **Conductivity** Analysers
- **Dissolved Oxygen** Analysers
- **Silica** Analysers
- **Sodium** Analysers
- **TOC** Analysers
- **Turbidity** Analysers
- **Chlorine** Analysers

MEASURE. | ANALYSE. | OPTIMISE.

www.labtech.in

LABTECH
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PRECISION IN EVERY PROCESS

MEASURE • MONITOR • CONTROL • AUTOMATE

ONLINE LIQUID ANALYSIS SENSORS

Continuous Water Quality Monitoring Solutions

Reliable | Accurate | Intelligent | IoT Ready



PREMIUM ONLINE SENSORS

pH SENSOR AS2000-PH



- Range: 0 – 14 pH
- Accuracy: ±0.02 pH
- Resolution: 0.01 pH
- Temperature: 0 – 80°C
- Pressure: 0 – 6 Bar
- Sensor Material: Glass Electrode
- Process Connection: 3/4" NPT / PG13.5
- Protection: IP68

APPLICATIONS

Water Treatment
ETP / STP
Process Water
Chemical Industry

CONDUCTIVITY / TDS SENSOR AS2030



- Conductivity Ranges: 0 – 20 µS/cm; 0 – 200 µS/cm; 0 – 2000 µS/cm; 0 – 20 mS/cm; 0 – 200 mS/cm
- Accuracy: ±1% FS
- Temperature: 0 – 120°C
- Cell Constants: K = 0.01; K = 0.1; K = 1.0; K = 10
- Protection: IP68

APPLICATIONS

RO Plant
DM Plant
Boiler Feed Water
Cooling Tower

TURBIDITY SENSOR AS2070



- Principle: 90° Scattered Light
- Low Range: 0.001 – 20 NTU; 0.001 – 200 NTU
- High Range: 0.01 – 400 NTU; 0 – 2000 NTU; 0 – 4000 NTU
- Accuracy: ±2% FS
- Resolution: 0.001 NTU
- Protection: IP68

APPLICATIONS

Drinking Water
WTP / STP
Surface Water
Industrial Water

DISSOLVED OXYGEN SENSOR AS2046



- Principle: Optical Luminescent (Membrane type optional)
- Range: 0 – 20 mg/L
- Accuracy: ±0.2 mg/L
- Resolution: 0.01 mg/L
- Temperature: 0 – 50°C
- Protection: IP68

APPLICATIONS

STP
Aquaculture
Biological Process
Environmental Monitoring

RESIDUAL CHLORINE SENSOR AS2050



- Principle: Amperometric
- Range: 0 – 2 ppm; 0 – 20 ppm
- Accuracy: ±2% FS
- Resolution: 0.01 ppm
- Temperature: 0 – 45°C
- Protection: IP68

APPLICATIONS

Drinking Water
Swimming Pool
Disinfection
Water Treatment

MLSS SENSOR AS2075M



- Principle: Infrared Scattered Light
- Range: 0.1 – 50,000 mg/L
- Accuracy: ±5% FS
- Resolution: 0.001 mg/L
- Protection: IP68

APPLICATIONS

Activated Sludge
STP
Biological Treatment
Wastewater

SPECIALIZED SENSORS

ORP SENSOR AS2000-ORP



- Range: -1500 to +1500 mV
- Accuracy: ±5 mV
- Resolution: 1 mV
- Temperature: 0 – 60°C
- Pressure: 0 – 6 Bar
- Platinum Electrode
- Protection: IP68

APPLICATIONS

Chlorination Control
Oxidation Control
Wastewater Treatment
Chemical Dosing

RESISTIVITY SENSOR AS2031



- Range: 0 – 20 MΩ.cm
- Accuracy: ±1% FS
- Resolution: 0.01 MΩ.cm
- Temperature: 0 – 100°C
- Principle: Conductive
- Protection: IP68

APPLICATIONS

UPW
Semiconductor
Pharmaceutical
Power Plants

TOTAL HARDNESS SENSOR AS2076



- Range: 0 – 1000 ppm
- Accuracy: ±2% FS
- Resolution: 0.01 ppm
- Principle: Ion Selective
- Temperature: 0 – 50°C
- Protection: IP68

APPLICATIONS

Boiler Feed Water
Cooling Water
RO Plant
Industrial Water

AMMONIA SENSOR AS8000



- Range: 0 – 1000 mg/L
- Accuracy: ±2% FS
- Resolution: 0.01 mg/L
- Principle: Ion Selective
- Temperature: 0 – 45°C
- Protection: IP68

APPLICATIONS

STP, ETP, Wastewater
Environmental Monitoring
Process Water

KEY FEATURES

Continuous Online | High Accuracy & Stability | Automatic Temperature | Fast Response | Corrosion Resistant | Low Maintenance | IP68 Waterproof | Compatible with Labtech Analyzers

MEASURE • MONITOR • CONTROL • AUTOMATE

LABTECH ELECTRONICS PVT. LTD.
PRECISION IN EVERY PROCESS

AC2000 SERIES

UNIVERSAL ONLINE ANALYSER CONTROLLER SERIES

Advanced performance. Maximum reliability.
Smart control for every process.

- High Accuracy & Stability
- Low Maintenance & Easy Integration
- Rugged Industrial Design
- Smart Communication & IoT Ready

AC2000M



AC2000C



AC2000D1



AC2000D2



Technical Specifications*

Descriptions	AC2000M	AC2000C	AC2000D1	AC2000D2
Temperature	0~150.0°C (According to the electrode)	-10~150.0 °C(According to the electrode)	-10~150.0 °C (According to the electrode)	-10~150.0 °C(According to the electrode)
Temperature resolution	0.1 °C	0.1 °C	0.1 °C	0.1 °C
Temperature error	±0.3 °C	±0.3 °C	±0.3 °C	±0.3 °C
Temperature compensation range	0~150°C	0~150°C	0~150°C	0~150°C
Temperature compensation	Automatic or manual	Automatic or manual	Automatic or manual	Automatic or manual
Output current	2 road 4 ~20mA, 20~4mA, 0~20mA	2 road 4 ~20mA, 20~4mA, 0~20mA	2 road 4 ~20mA, 20~4mA, 0~20mA	2 road 4 ~20mA, 20~4mA, 0~20mA
Communication output	RS485 Modbus RTU	RS485 Modbus RTU	RS485 Modbus RTU	RS485 Modbus RTU
Other features	-	-	Data recording/trend chart display	Data recording/trend chart display
Relay control contact	Two groups:3A 250VAC , 3A 30VDC	Two groups:3A 250VAC , 3A 30VDC	Three groups :5A 240VAC; 5A 28VDC or 120VAC	Three groups :5A 240VAC; 5A 28VDC
Optional power supply	85~265VAC or 9~36VDC , Power:≤3W	85~265VAC or 9~36VDC , Power:≤3W	85~265VAC or 9~36VDC , Power:≤3W	85~265VAC or 9~36VDC , Power :≤3W
Work environment	No strong magnetic field interference around except f earth's magnetic field Integrated installation			
Environment temperature	-10~60 °C	-10~60°C	-10~60 °C	-10~60 °C
Relative humidity	≤90%	≤90%	≤90%	≤90%
Protection grade	IP65	IP65	IP65	IP65
Instrument weight	0.6kg	0.6kg	0.8kg	0.8kg
Instrument dimension	98×98×130mm	98×98×130mm	144×144×118mm	144×144×118mm
Mounting hole size	92.5×92.5mm	92.5×92.5mm	138×138mm	138×138mm
Instrument Installation method	Plate installation, wall mounted	Plate installation, wall mounted	Plate installation, wall mounted	Plate installation, wall mounted

Controller Selection Guide

Parameters	Controller Part Number				Range	Resolution	Error	Stability
pH/ORP	AC2000M	AC2000C			0-14pH; ±2000mV	0.01pH; 1mV	±0.02pH; ±2mV	≤0.02pH/24h ; ≤2mV/24h
			AC2000D1	AC2000D2	-2-16pH; ±2000mV	0.001pH; 1mV	±0.01pH; ±1mV	≤0.01pH/24h; ≤1mV/24h
Ion	AC2010M	AC2010C	AC2010D1	AC2010D2	0-99999mg/L	0.01mg/L	±2.5%	-
Conductivity	AC2030M	AC2030C	AC2030D1	AC2030D2	0-500ms/cm	0.01μS/cm;0.01mS/cm	±0.5%F.S	±0.2%F.S/24h
Resistivity					0-18.82MΩ/cm	0.01KΩ/cm;0.01MΩ/cm		
TDS					0-250g/L	0.01mg/L;0.01g/L		
					0-700ppt	0.01PPT;0.1%;0.01mg/L		
Salinity		AC2036C	AC2036D1	AC2036D2	NAOH:0-16%	0.01%	±0.25%	±0.25%/24h
Acid base salt concentration					CaCL2:0-22%			
					NACL/HNO3/HCL/H2SO4: 0-10%			
Electromagnetic conductivity			AC2036D1	AC2036D2	0~2000mS/cm	0.01μS/cm ;0.01mS/cm	±0.5%F.S	±0.2%F.S/24h
					0~1000g/L	0.01mg/L ;0.01g/L		
					Refer to the chemical concentration table	Concentration :0.01% ;	Concentration: ±0.2%	
Polarographic dissolved oxygen	AC2040M	AC2040C	AC2040D1	AC2040D2	0-40m g/L,0-400%	0.01mg/L;0.1%	±1%F.S	<2%F.S/Week
Trace dissolved oxygen		AC2042C	AC2042D1	AC2042D2	0-200μg/L-20.0mg/L	0.1μg/L;0.01mg/L	±1%F.S	<2%F.S/Week
Fluorescent dissolved oxygen		AC2046C	AC2046D1	AC2046D2	0-20.0mg/L;0-100%	0.01mg/L;0.1%	±1%F.S	<2%F.S/Week
Turbidity meter		AC2070C	AC2070D1	AC2070D2	0.001-9999NTU	0.001NTU	±1%F.S	-
Suspended solids		AC2075C			0-50000mg/L	0.01mg/L;0.01g/L	±1%F.S	-
			AC2075D1	AC2075D2	5.00-50000mg/L	0.01mg/L;0.01g/L	±1%F.S	
Potentiostatic FCL		AC2050C	AC2050D1	AC2050D2	0-20.00mg/L(ppm)	0.001mg/L	±1%F.S	Response time : 90%<90S
Polarographic FCL		AC2055C	AC2055D1	AC2055D2	0-10.00-20.00mg/L	0.001mg/L	±1%F.S	
					pH:0~14.00pH	pH:0.01pH	pH:±0.05pH	Response time :90% <90S
Potentiostatic CLO2		AC2053C	AC2053D1	AC2053D2	0-20mg/L	0.001mg/L	±1%F.S	Response time:90% <90S
Potentiostatic Ozone		AC2058C	AC2058D1	AC2058D2	0-20mg/L	0.001mg/L	±1%F.S	Response time:90% <90S
Ultrasonic sludge Level			AC2080D1	AC2080D2	0.2-12m	0.001m	±1%F.S	
Ultrasonic level Meter			AC2085D1	AC2085D2	0-1-5-10m (Customize)	0.001m	±1%F.S	Flow rate : ≤3m/S

KEY FEATURES

- Online Continuous Measurement
- High Accuracy & Stability
- Automatic Temperature Compensation
- Fast Responce Time
- Corrosion Resistant Construction
- Low Maintenance Design
- IP65 Protection
- Compatible with Labtech Sensors

OUTPUT

- 4 – 20 mA (Isolated)
- RS485 Modbus RTU
- Relay Outputs
- Data Logging
- MQTT Cloud (Optional)

COMMUNICATION

- RS485 Modbus RTU
- Ethernet (Optional)
- MQTT Cloud (Optional)
- Wi-Fi (Optional)
- 4G Remote Monitoring (Optional)

POWER SUPPLY

- 18 – 36 VDC
- 24 VDC (Nominal)

TYPICAL APPLICATIONS

- Water & Wastewater
- Power Plants
- Chemical & Pharma
- Food & Beverage
- Pulp & Paper
- Cement / Steel Semiconductor

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PRECISION IN EVERY PROCESS

MEASURE • MONITOR • CONTROL • AUTOMATE

ADVANCED ANALYSERS

PRECISE MEASUREMENT • RELIABLE PERFORMANCE • SMART WATER SOLUTIONS

1 COD/BOD/TSS ONLINE ANALYSER
AC3000 SERIES

- Multi-parameter online monitoring for COD, BOD, TSS, pH, Temperature & more
- 7" Color Touch Screen Display for easy operation
- High Accuracy & Repeatability
- Automatic Cleaning & Self-Diagnostics
- Multiple Outputs: 4-20mA, RS485, Relays
- Wall / Panel Mounting IP65 Enclosure

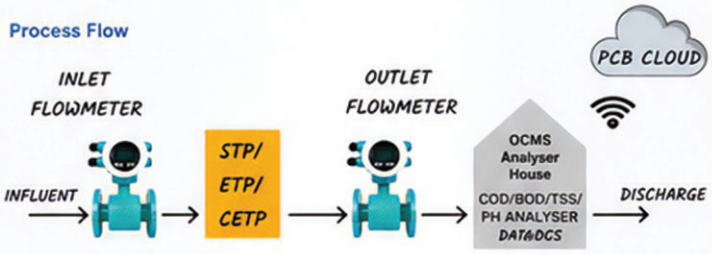


APPLICATIONS

STP / ETP | Industrial Wastewater | Power Plants | Process Water | Environmental Monitoring

2 OCMS – ONLINE CONTINUOUS MONITORING SYSTEM FOR STP/ETP/CETP

Process Flow



Features

- Wide Range from D8 to DN3000
- User Friendly Advanced Menu & Password
- Standard / NABL Inhouse /Site Calibration
- Choice of Electrodes, Flanges & Lining
- Velocity 0.01 m/s to 15 m/s on request
- Customized Accuracy 0.1% / 0.2% / 0.5% (dft)
- Outputs: 4-20mA, Pulse / RS485 / HART, Relay
- Monitor Data to LABTECH Cloud Platform
- Power: 24V DC or 110V / 230V AC @ 50Hz



WAM CERTIFIED

CONNECT+ Software



APPLICATIONS

STP | ETP | CETP | Industrial Wastewater | Compliance Monitoring

3 SILICA ONLINE ANALYSER
AC6400 SERIES

- Low Level Silica Measurement
- Wide Range 0 – 5000 ppb
- Fast, Accurate & Reliable Results
- Low Reagent Consumption
- Heated Sample Cell with Sample Awareness
- Auto Calibration & Diagnostics
- Intelligent Sample Awareness for Up to 30 Days
- Wall / Panel Mounting IP65 Enclosure



APPLICATIONS

Power Plants | Semiconductor | Pharmaceutical | Pulp & Paper | Chemical

4 SODIUM ONLINE ANALYSER
AC6300 SERIES

- Ultra Low Sodium Measurement
- Range 0.1 – 5000 ppb Na
- Automatic 3-Point Calibration
- pH Adjustment with Precision Control
- Very Low Reagent Consumption
- Multi-Channel Monitoring (Up to 6)
- Data & Control via 4-20mA, Relays, RS232
- Wall / Panel Mounting IP65 Protection



APPLICATIONS

Power Plants | Boiler Water | Demineralizers | Semiconductor | Desalination

28th ANNIVERSARY
SINCE 1998

CONNECT+
IoT Solution Enabled

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