



Chemmit

Precision | Stability | Reliability | Easy Maintenance

We are the expert in analysis of liquids in the process.

Compact Controller

Chemmit A7000 Lite

This is a compact-designed controller at a precision and cost-effective operating concept. It provides a central platform for display and processing of pH Value, ORP, Conductivity, Temperature, Suspended Solid and Dissolved Oxygen. This unit can measure and manage up to two inputs in any combination for direct connection of sensors for liquid analyses.

Wireless Transmission Module: 4G, WIFI
 Temperature Accuracy: $\pm 0.2^{\circ}\text{C}$
 pH Measuring Range: $\text{pH}=0 - 14$; Accuracy : $\pm 0.01 \text{ pH}$
 Conductivity: $0.01\text{m} - 600\text{S/cm}$, $\pm 1\%$
 ORP: $-1500 - +1500 \text{ mv}$, $\pm 1\%$
 DO: $0 - 20 \text{ ppm}$, $\pm 1\%$
 Turbidity: $0 - 100/500/3,000 \text{ NTU}$, $\pm 2\%$
 SS: $0 - 1,000/50,000 \text{ ppm}$, $\pm 2\%$
 Power: $110-220 \text{ VAC}$
 Analog Output: $4-20\text{mA}$ *2sets



In-line Photometer

Chemmit A7500 Series

This series is a high performance photometer for high resolution, real time, in-line concentration measurement. Such as: Concentration, Color, Turbidity, Suspended Solids, UV-VIS-NIR absorbance and other non-ferrous metal ions.

Photometric Accuracy: 0.001 AU
 APHA/Hazen: $0-50, 0-500 \text{ PCU}$
 (PCU = Pt-Co / Platinum Cobalt color Unit)
 Cu+2: $0 - 120\text{g/L}$
 Cr+6: $0 - 500 \text{ g/L}$
 Chromium: $0 - 5 \text{ g/L}$
 Chromate: $0 - 5 \text{ g/L}$
 Chlorine: $0 - 5 \text{ g/L}$ or $0 - 100\%$
 Copper: Up to 150 g/L and higher

Nickel: $0 - 250 \text{ g/L}$
 Iron: FeCl_2 : up to 200 g/L , higher ranges are possible
 FeSO_4 : up to 500 g/L , higher ranges are possible
 Suspended Solids: 0.001% (10 NTU) - 100% , Accuracy: $< 0.1\%*$
 Turbidity: $0.01 - 4000\text{NTU/FNU}$ ($0.0025 - 1000\text{EBC}$), Accuracy: $< \pm 2\%*$
 No Reagent Consumption



Chemmit Mini- CWMS

CWMS is an abbreviation from continuous water monitoring system. Like the product name, Mini-CWMS is a smaller and compact water watcher which can be applied where electricity, cable and communication are not available. Even without the mentioned conditions, users can still receive the onsite data.

Measure: pH, Conductivity, Temperature, COD, Copper (Option)
 Wireless Transmission Module : GSM/LoRa
 Battery Capacity: 51000 mA lithium battery, available to charge anytime
 Filter Device: Remove particle and prevent from algae raising
 Temperature Accuracy: $\pm 0.5^{\circ}\text{C}$
 pH Measuring Range: $\text{pH}=1 - 13$; Accuracy : $\pm 0.1 \text{ pH}*$
 Conductivity: $500 \mu\text{S/cm} - 5000 \mu\text{S/cm}$, $\pm 3\%*$
 Cooper: $\leq 0 - 3 \text{ ppm}$, $\pm 20*$
 COD: $50 - 250 \text{ ppm}$, $\pm 5\%*$
 COD: $0 - 50 \text{ ppm}$, $\pm 5\%*$



*Standard solution

Chemmit W3000 Series

Our W3000 Series is based on wet chemistry analyses, including Colorimetry, Titrimetry and Ion Selective Electrode (ISE) and follow international official standards, such as ASTM, the U.S EPA regulations, etc. It has a complete product line and covers vary applications as listed but not limited below.

Colorimetry

The colorimetric system uses dual beams optical configuration and an autoblack feature which compensate for background color and turbidity to determinate compounds by its color changing based on international standard methods, such as ASTM, U.S. EPA, APHA, AWWA and so on. According to users' applications, we can provide suggestion and suitable instruments for you.



Titrimetry

Titration is also known as titrimetry and it determines the concentration of an identified solution. Since volume measurements play a specific role in titration, we deliver titrant precisely with our syringe design and uses can receive the accurate results. Acids, Alkalinity, Caustic, Carbonate, Cyanide, Hardness, Iron, Peroxide, Silver and many other analyses are common applications across a wide variety of process industries.

ISE

It is a sensor that converts the activity of a specific ion dissolved in a solution into an electrical potential. The voltage is theoretically dependent on the logarithm of the ionic activity, according to the Nernst equation. Potentiometric sensors are used for ion selective measurements. The single known addition (SKA) technique compensates for electrode drift on every analysis.

Measure	Model	Method	Typical Range
Aluminum	W3113SY	C	0.05 – 1 ppm
Ammonia	W3107SY	C	0 – 1 ppm to 0 - 200 ppm (With dilution can up to 300 ppm)
Ammonia	W3214	ISE	0 - 10 ppm, 0 - 100 ppm, 0 - 1000 ppm (With dilution can up to 10000 ppm)
Boron	W3105	C	0 – 1 ppm, 0 - 10 ppm (With dilution can up to 0-100 ppm , option)
Lead	W3182	C	0.01 - 0.2 ppm, 0 - 1 ppm
Cadmium	W3148	C	0 - 0.1 ppm, 0 - 1 ppm
Chloride	W3112	C	0 - 1 ppm, 0 - 10 ppm or 0 - 50 ppm (Option)
Chloride	W3217	ISE	0 - 10 to 0 - 3,000 ppm
Chromate(VI)	W3124SY	C	0-1 ppm, 0-5 ppm
CODcr	W3111	C	0-2000 ppm or 0-20,000 ppm
CODuv	W7511	D	0-200 ppm
Cobalt	W3127	C	0.05-0.5 ppm, 0-1 ppm, 0-5 ppm
Copper	W3129SY	C	0-1 ppm, 0-5 ppm, 0-20 ppm (Up to 50 ppm)
Free Cyanide	W3106	C	0-0.1 ppm, 0-3 ppm or 0-20 ppm (option)
Total Cyanide	W3106T	C	0-0.1 ppm, 0-3 ppm or 0-20 ppm (option)
Fluoride	W3209	ISE	0-10 ppm, 0-100 ppm, 0-1000 ppm (With dilution can up to 10000 ppm)
Iron	W3126	C	0-1 ppm, 0-5 ppm
Manganese	W3125	C	0 - 2 ppm, 0-10 ppm
Nickel	W3528	D	0 - 10 g/L Ni+, 0 - 14 pH, 0 - 100°C, Large size without reagent consumption.
Nickel	W7528	D	0 - 10 g/L Ni+, 0 - 14 pH, 0 - 100°C, Small size without reagent consumption.
Nickel	W3128SY	C	0-5 ppm, 0-10 ppm, 0-100 ppm (Up to 500ppm), With syringe designed.
Nitrate	W3214-2	ISE	0 - 5 to 0 - 1,800 ppm
Nitrite	W3214-1	ISE	0-10 ppm, 0-100 ppm, 0-1000 ppm
Nitrite	W3146	C	0-1 ppm, 0-10 ppm, (Up to 50 ppm)
Potassium	W3219	ISE	0-10 ppm, 0-100 ppm, 0-1000 ppm (With dilution can up to 10000 ppm)
Phosphate	W3115P	C	0 - 10 ppm, 0 - 30 ppm, (Up to 100ppm)
Total Phosphate	W3115T	C	0-1 to 0-5 ppm (Up to 0-20 ppm)
Total Alkalinity	W4217	T	Varies
Total Nitrogen	W3107T SY	C	0-1 ppm, 0-5 ppm, (Up to 100 ppm)
Total Phenol	W3194	C	0-0.1 ppm, 0-1 ppm
Silica	W3114	C	0-200 ppb, 0-500 ppb, 0-1 ppm
Silver	W3147	C	0.05-0.5 ppm, 0-1 ppm (With dilution can up to 0-5 ppm , option)
Sodium	W3211	ISE	0 - 100 to 0 - 1,000 ppb
Zinc	W3130	C	0 - 1 ppm, 0 - 5 ppm

C= Colorimetry

D= Direct measure

T= Titration

ISE= ion-selective electrode

Application \ Product	W3000 Series	A7500 Series	A7000 Lite
Raw- Water	○	○	○
Process Water	○	○	○
Portable Water	○	○	○
Cooling Water	○	○	○
Boiler Feed Water	○	○	○
RO-Water	○	○	○
Ultra-Pure Water	○	○	○
River, Lake, Ocean	○	○	○
Trace- and Impurity Detection	○	○	○
Filter Control	○	○	○
Blending Control	○	○	○
Sugar Manufacturing	○	○	○
Wastewater Treatment	○	○	○
Petro-Chemical Industry	○	○	○
Refinery Industry	○	○	○
Pharmaceutical Industry	○	○	○
Food Industry	○		○
Semiconductor Industry	○	○	○
TFT & LCD Industry	○	○	○
Desalination of Seawater		○	○
Municipal Sewage Effluent	○	○	○
Environmental Monitoring	○	○	○
Fish Farm			○
Industrial Process Water Treatment		○	○
Chemical Plating Process		○	
Electroplating Factory	○	○	
Power Station & Energy Plant			

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