

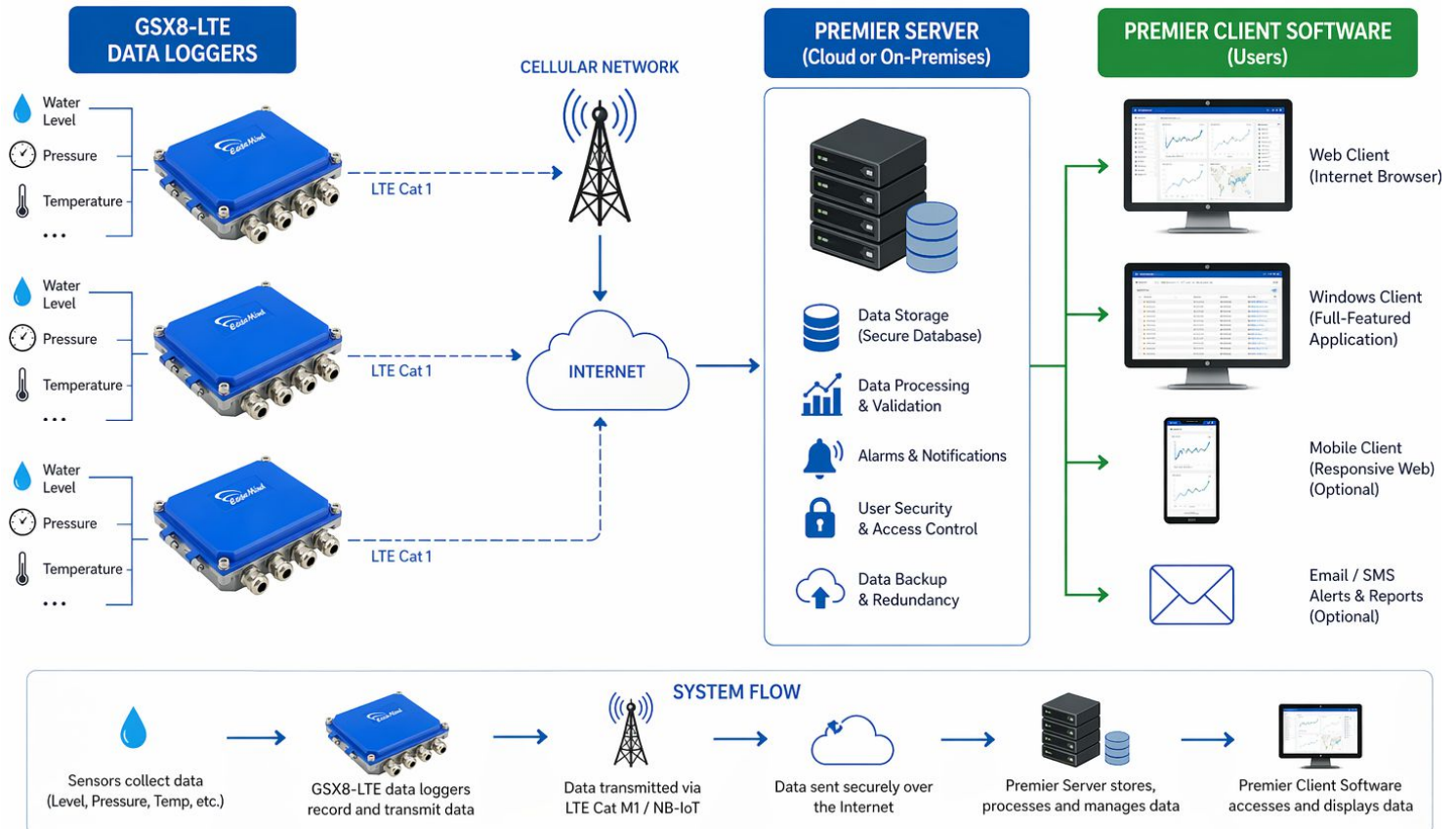
Premier Server Client Software

Enterprise-grade cloud server solution



Overview

- ❖ Enterprise-grade cloud server solution for large-scale data logging applications
- ❖ Supports GSX8 series data loggers and multi-network communication (GPRS, SMS, Wi-Fi, Ethernet)
- ❖ Designed for high reliability, real-time data processing, and scalability in multi-sites deployment



Core Features

- Real-time data acquisition via UDP, TCP, SMS, and cloud connectivity
- Centralized management of data loggers, users, and databases
- Advanced alarm management with email and SMS notifications
- User-defined formulas and built-in calculation modules
- Supports MySQL, Oracle, and SQL Server databases
- Handles thousands of simultaneous data inputs (patented technology)

Data Integrity & Recovery

- Patented automatic data recovery system
- Recovers lost data from logger memory after communication failure
- Ensures time-sequenced data integrity
- Achieves up to 99.9% data reliability

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Data Management & Processing

- ❖ Live, historical, and statistical data tracking
- ❖ Artificial channels for advanced calculations and derived data
- ❖ Automatic data export (CSV, MDB, XML)
- ❖ Background processing for optimized performance
- ❖ Real-time system performance monitoring and logging

Client & User Management

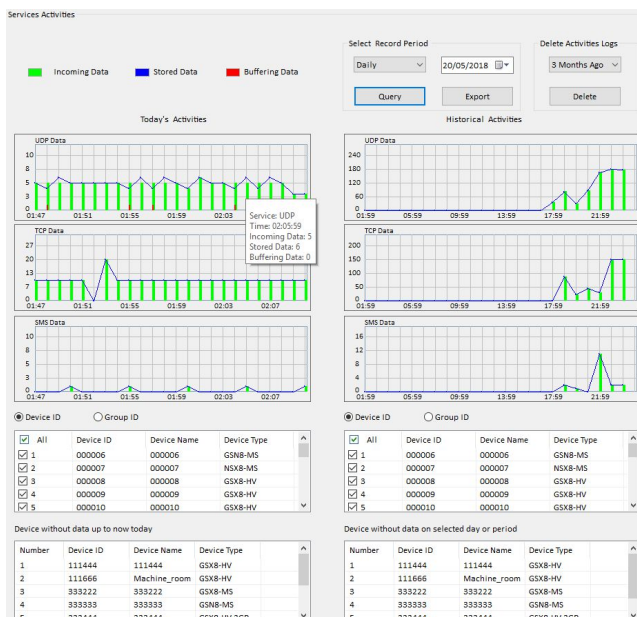
- max. 999,999 dataloggers,
- max. 999 remote clients
- Multi-tenant cloud architecture
- Role-based access & authentication

NO.	Client Code	Header	Device ID	Device Name	Device Type	Voltage	Record_Time
801	GHG-XGY-GZG-JGI	STA	555111	555111	GSX8-HV	---	2018-05-20 20:13:00
802	CKY-KCV-MVY-XUK	STA	333111	Temp_Monitor	GSX8-HV-3...	---	2018-05-20 20:12:00
803	GHG-XGY-GZG-JGI	STA	555111	555111	GSX8-HV	---	2018-05-20 20:12:00
804	CKY-KCV-MVY-XUK	STA	333111	Temp_Monitor	GSX8-HV-3...	---	2018-05-20 20:11:01
805	GHG-XGY-GZG-JGI	STA	555111	555111	GSX8-HV	---	2018-05-20 20:11:00
806	CKY-KCV-MVY-XUK	STA	333111	Temp_Monitor	GSX8-HV-3...	---	2018-05-20 20:10:00
807	GHG-XGY-GZG-JGI	STA	555111	555111	GSX8-HV	---	2018-05-20 20:10:00
808	CKY-KCV-MVY-XUK	STA	333111	Temp_Monitor	GSX8-HV-3...	---	2018-05-20 20:09:01

Alarm & Notification System

- ❖ Multi-level high/low alarms per channel
- ❖ Alarm types: sensor, digital, system, data loss, hardware
- ❖ Notifications via SMS, email, and client software
- ❖ Grouped alarm management for multiple remote clients

Device ID	Device Name	Enable Display Alert	Enable Email Alert	Enable Phone Alert	Display Alert Interval	Em
000006	000006	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	01m	01h
111555	000007	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	01m	01h
000008	000008	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	01m	01h
000009	000009	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	01m	01h
000010	000010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	01m	01h
111444	111444	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	01m	01h
111555	Data_Centre	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	01m	01h
111666	Machine_room	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	01m	01h
333111	Temp_Monitor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	02m	30m
333222	333222	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	01m	01h
333333	333333	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	01m	01h
333444	333444	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	01m	01h
555111	555111	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	01m	01h



System Performance & Reliability

- ❖ Multi-threaded architecture handling thousands of records per second
- ❖ Redundant database architecture for fail-safe operation
- ❖ Automatic failover between databases
- ❖ Stress-tested for optimized performance
- ❖ Real-time system load and health monitoring

"Ready-to-use" formulas

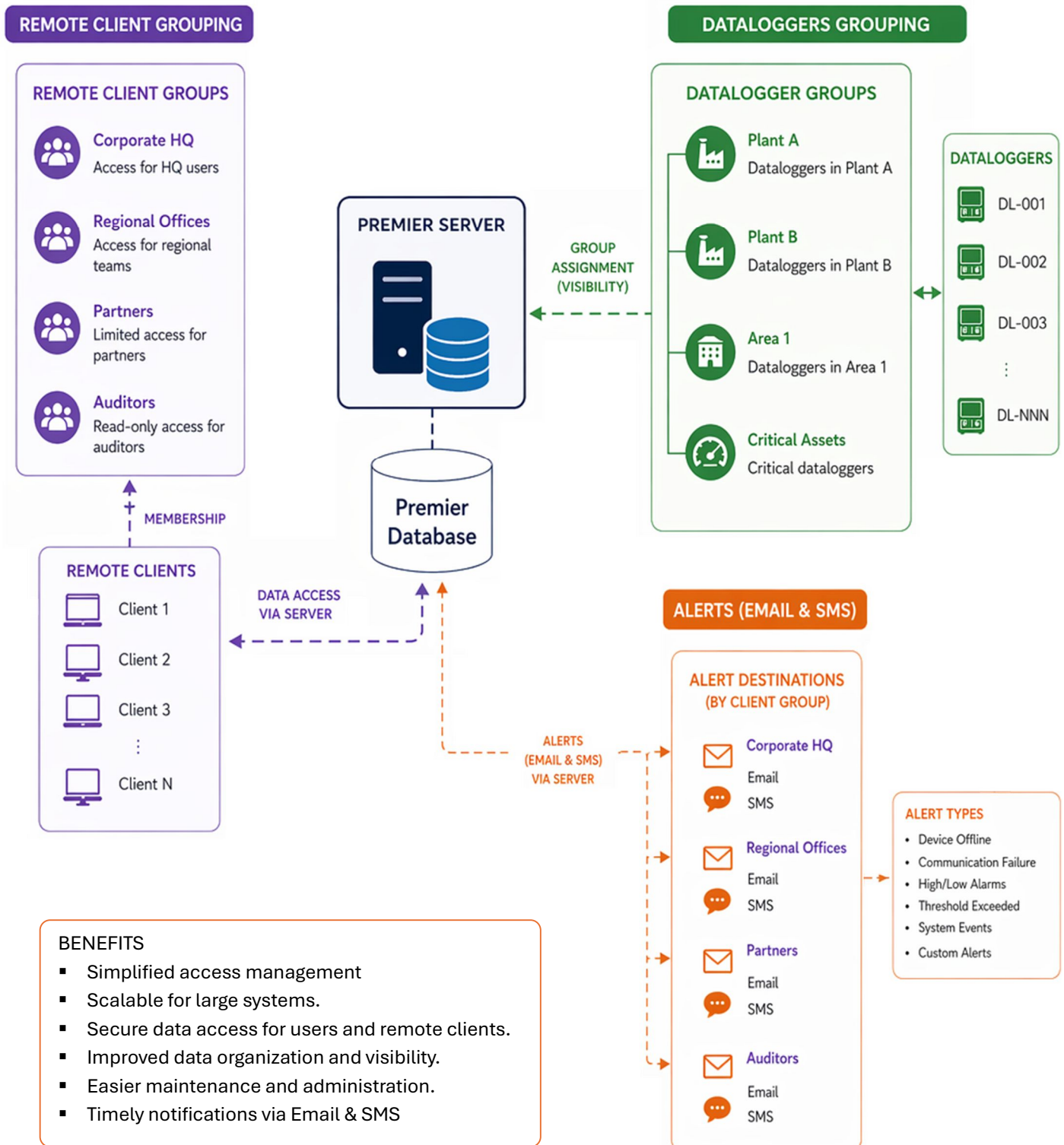
- ❖ 3 built-in formula analyzing data
- ❖ Real time calculations in the background

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HOW SYSTEM WORKS

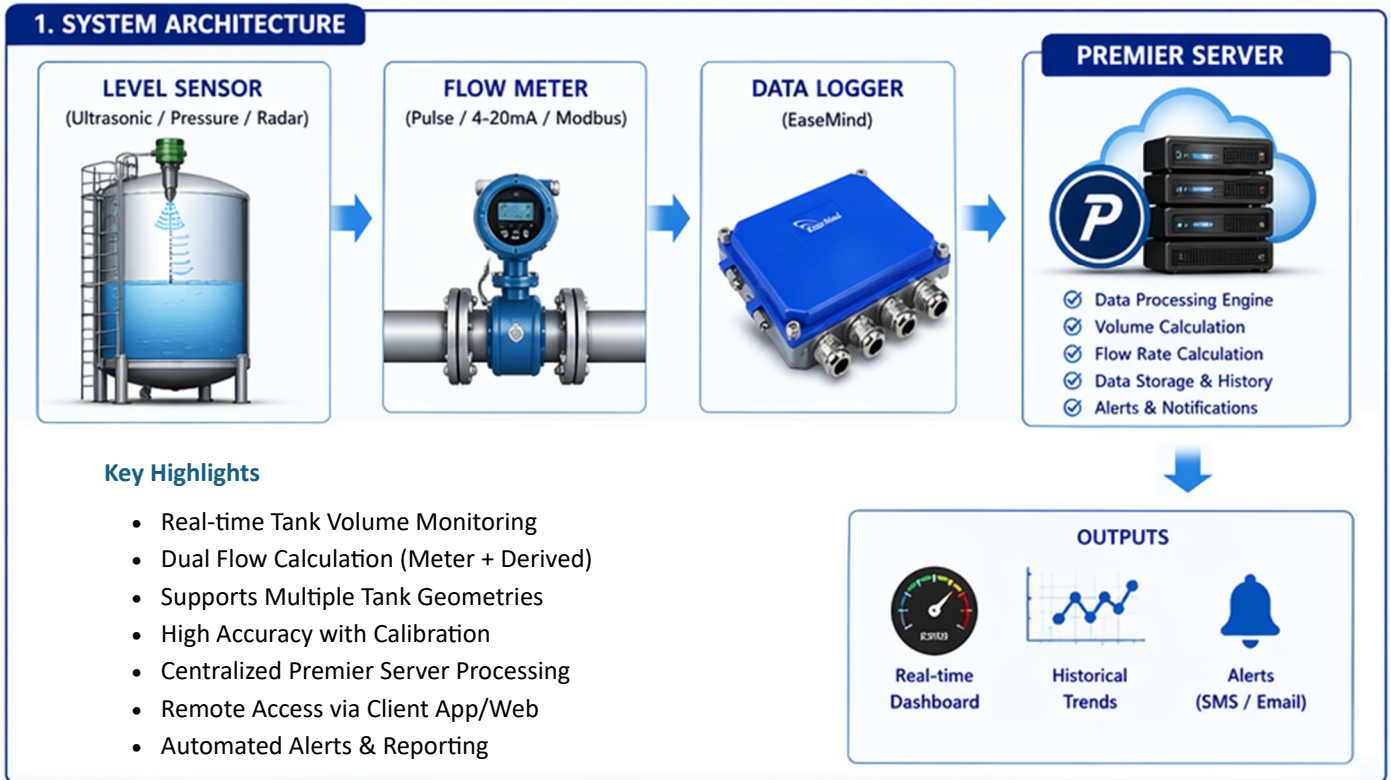
- Users are assigned to User Groups.
- Dataloggers are organized into Datalogger Groups.
- Access rights are defined by assigning Datalogger Groups to User Groups.
- Remote Client Groups are defined to allow users to access data from the server.
- Remote clients authenticate and access data based on their group permissions.
- Server sends Email and SMS alerts to recipients in respective Remote Client Groups.



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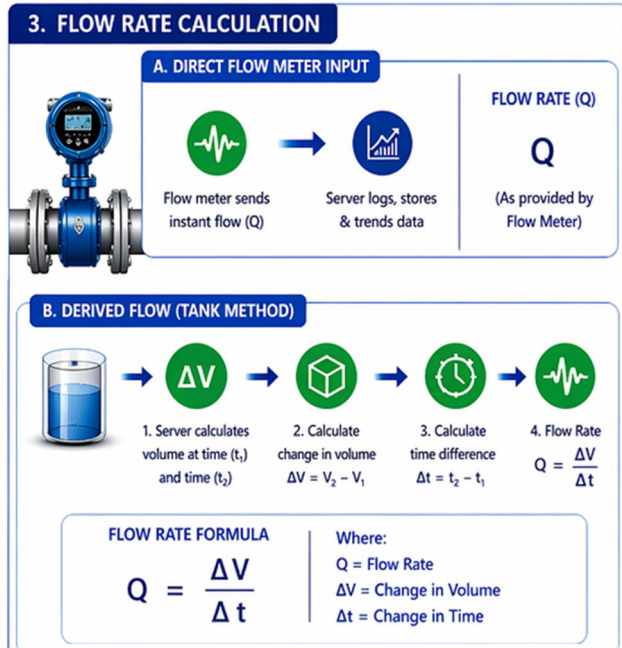
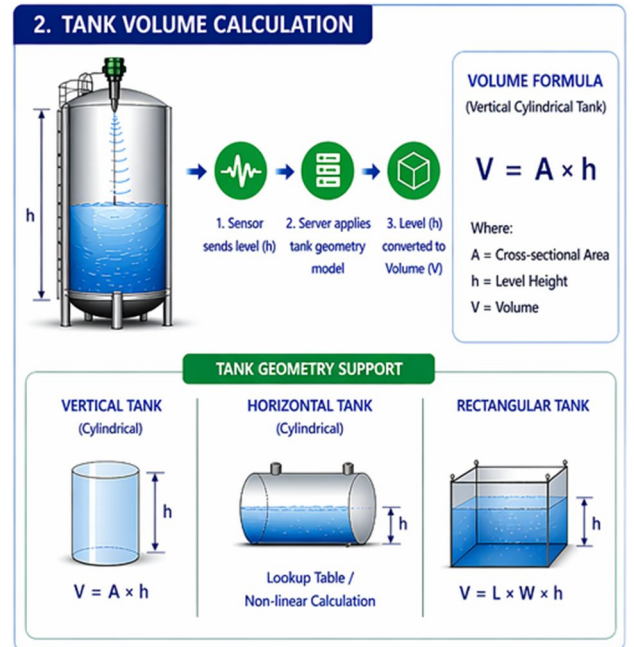
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1. Tank Volume & Flow Rate Calculation Schematic



2. Tank Volume Calculation

- ❖ Various tank geometry formula built-in
- ❖ Calculating the tank volume based on level measurement.
- ❖ Selectable measurement unit in liter, gallon or cm3
- ❖ Support different type level sensors and 2 levels of high/low alarm



3. Flow Rate & Flow Volume Calculation

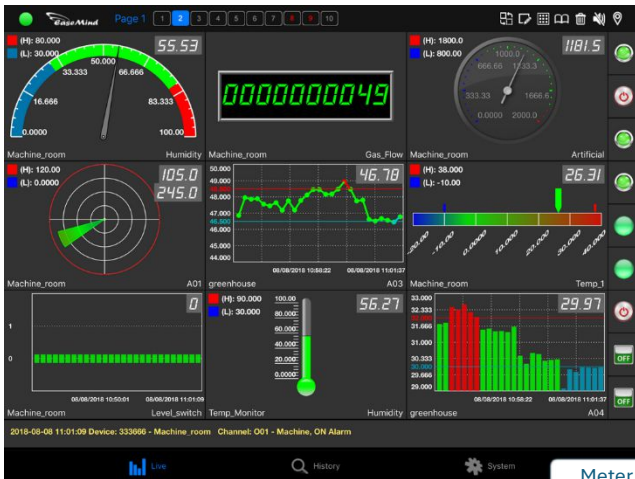
- ❖ Flow Rate based on pulse reading or flow volume.
- ❖ Total Flow in hour, day, week, month
- ❖ Premier Client displays flow rate, total volume and alarm

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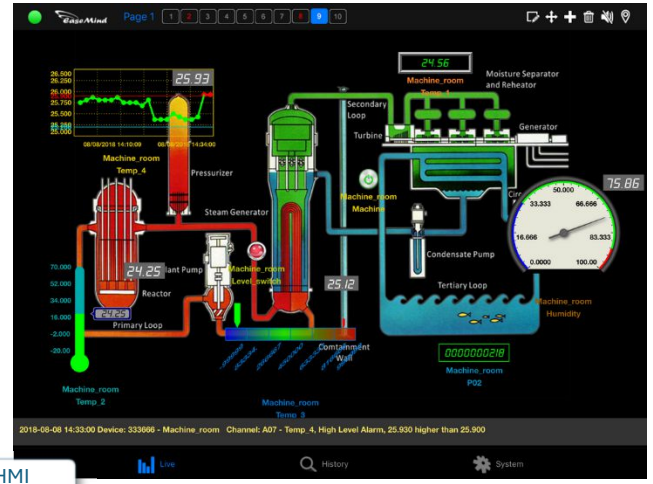
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Client Software Capabilities

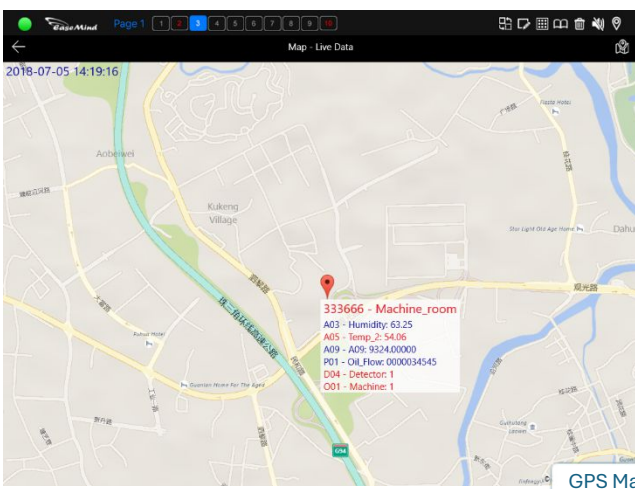
- Windows, iOS, and Android support
- Multi-screen visualization
- Real-time alerts and notifications
- GPS mapping and device tracking



Meter



HMI



GPS Map



Line Chart



Dashboard

Num.	Type	ID	Name	Date	Time	A03	A04	A25	A26
1	STA	555222	Temp_Monitor	09/08/2018	09:58:00	55.78	28.06	2243.92667	.N
2	STA	555222	Temp_Monitor	09/08/2018	09:58:01	55.87	28.06	2243.92530	.N
3	STA	555222	Temp_Monitor	09/08/2018	09:57:00	55.87	28.00	2243.92509	.N
4	STA	555222	Temp_Monitor	09/08/2018	09:56:01	55.66	28.06	2243.93034	.N
5	STA	555222	Temp_Monitor	09/08/2018	09:55:00	55.96	28.06	2243.92750	.N
6	STA	555222	Temp_Monitor	09/08/2018	09:54:00	55.90	28.06	2243.92465	.N
7	STA	555222	Temp_Monitor	09/08/2018	09:53:00	55.69	28.06	2243.91875	.N
8	STA	555222	Temp_Monitor	09/08/2018	09:52:00	56.08	28.06	2243.92202	.N
9	STA	555222	Temp_Monitor	09/08/2018	09:51:00	56.05	28.06	2243.92433	.N
10	STA	555222	Temp_Monitor	09/08/2018	09:50:00	56.11	28.18	2243.92481	.N
11	STA	555222	Temp_Monitor	09/08/2018	09:49:00	55.84	28.18	2243.92972	.N
12	STA	555222	Temp_Monitor	09/08/2018	09:48:00	55.63	28.12	2243.92773	.N
13	STA	555222	Temp_Monitor	09/08/2018	09:47:00	55.41	28.12	2243.92687	.N
14	STA	555222	Temp_Monitor	09/08/2018	09:46:00	55.14	28.18	2243.92448	.N
15	STA	555222	Temp_Monitor	09/08/2018	09:45:00	55.05	28.18	2243.92981	.N
16	STA	555222	Temp_Monitor	09/08/2018	09:44:00	55.05	28.18	2243.92577	.N
17	STA	555222	Temp_Monitor	09/08/2018	09:43:00	54.92	28.25	2243.92239	.N
18	STA	555222	Temp_Monitor	09/08/2018	09:42:00	54.95	28.18	2243.92651	.N
19	STA	555222	Temp_Monitor	09/08/2018	09:41:00	55.20	28.06	2243.92732	.N
20	STA	555222	Temp_Monitor	09/08/2018	09:40:00	55.69	28.06	2243.92519	.N

Data List

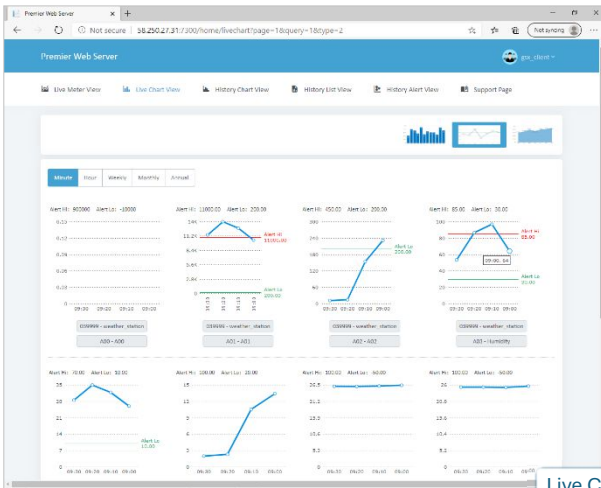
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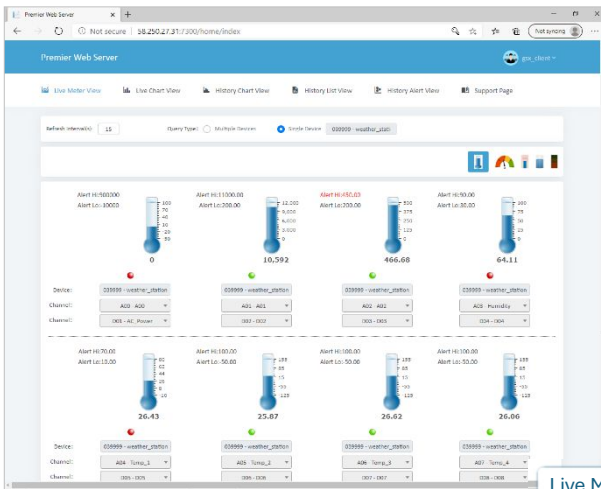
Premier Web Server

- Web Browser support
- Multi-screen visualization
- Real-time alerts and notifications
- Allow user customization

- * **Premier Web Architecture:** Platform-independent server with universal web browser access.
- * **High-Capacity Monitoring:** Real-time tracking of up to 120 simultaneous channels/loggers.
- * **Customizable Interface:** User-selectable refresh rates and gauge graphics; 10-page layout (12 channels/page).
- * **Comprehensive Signal Integration:** Supports Analog, Pulse, and Digital inputs with integrated alarm logic.
- * **Proactive Alerts:** Real-time alarm notifications and detailed status visualization.



Live Chart

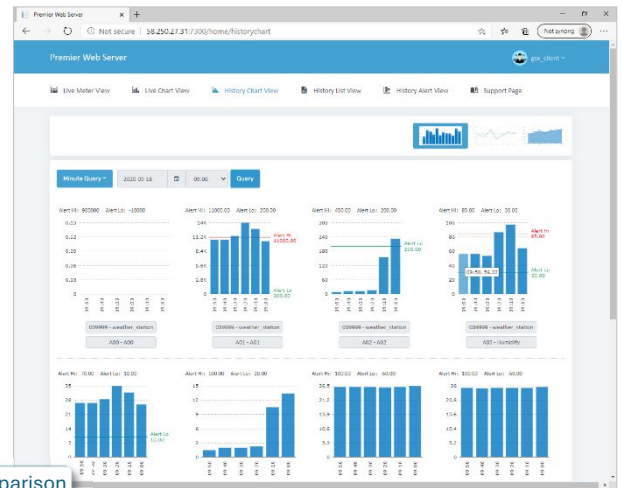


Live Meter

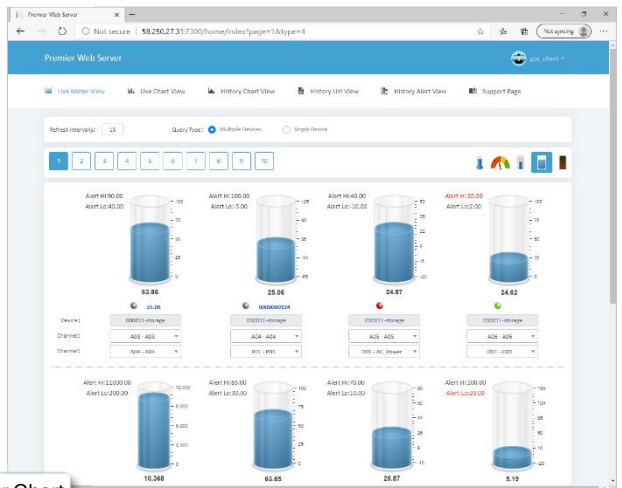
This screenshot displays the 'Data List' view of the Premier Web Server. The interface shows a table with columns for 'Device ID', 'Device Name', 'Last Seen Time', 'Alert', 'FID', 'CID', 'DID', 'Start Time', and 'End Time'. The table contains 17 rows of data, providing a detailed list of all monitored devices and their current status.

Device ID	Device Name	Last Seen Time	Alert	FID	CID	DID	Start Time	End Time
1	039999	weather_station	2022-09-18 12:58:00	61.28	000023542	1	0	
2	039999	weather_station	2022-09-18 13:39:00	61.85	000023542	1	0	
3	039999	weather_station	2022-09-18 13:39:00	57.82	000023542	1	0	
4	039999	weather_station	2022-09-18 13:39:00	15.47	000023542	1	0	
5	039999	weather_station	2022-09-18 13:39:00	54.83	000023542	1	0	
6	039999	weather_station	2022-09-18 13:39:00	24.83	000023542	1	0	
7	039999	weather_station	2022-09-18 13:39:00	25.85	000023542	1	0	
8	039999	weather_station	2022-09-18 13:39:00	55.47	000023542	1	0	
9	039999	weather_station	2022-09-18 13:39:00	61.84	000023542	1	0	
10	039999	weather_station	2022-09-18 13:39:00	55.25	000023542	1	0	
11	039999	weather_station	2022-09-18 13:39:00	14.74	000023542	1	0	
12	039999	weather_station	2022-09-18 13:39:00	54.82	000023542	1	0	
13	039999	weather_station	2022-09-18 13:39:00	54.85	000023542	1	0	
14	039999	weather_station	2022-09-18 13:39:00	54.28	000023542	1	0	
15	039999	weather_station	2022-09-18 13:39:00	55.93	000023542	1	0	
16	039999	weather_station	2022-09-18 13:39:00	61.85	000023542	1	0	
17	039999	weather_station	2022-09-18 13:39:00	55.84	000023542	1	0	

Data List



Comparison



Meter Chart