



Automation for a Changing World

Delta **DIView** SCADA System

Delta DIAView SCADA System

Your Best Choice for Data Collection, Factory Visualization, Real-Time Monitoring and Management

To succeed in a highly competitive marketplace, your plants, machines, systems and facilities all require more efficient management to collect, analyze, and monitor real-time factory and production data, achieving high-efficiency factory production and management.

Delta's DIAView SCADA System is an industrial data visualization software designed for smart management of factory equipment and production processes. The system employs automated management function including real-time system monitoring, data acquisition and analytics, to assist users to collect data of whole plant, as well as constructing a management interface for production line visualization, achieving remote monitoring, system management, digitalization of whole plant, and increasing overall factory production efficiency. The DIAView SCADA System is suitable for machinery, metallurgy, water treatment, HVAC, packaging, central heating control, environmental monitoring, textiles, energy management, transportation, smart buildings, and more.

The DIAView SCADA System is easily compatible with Delta's industrial automation products to help customers in a variety of industries establish a complete automation solution for high-efficiency monitoring and managing their factories and every subsystem situation. The DIAView can also optimize production distribution by enhancing data traceability. Delta's DIAView SCADA System, realizing digitalization, visualization, and real-time monitoring, is the best choice for meeting your industry demands and "Automation for a Changing World" !

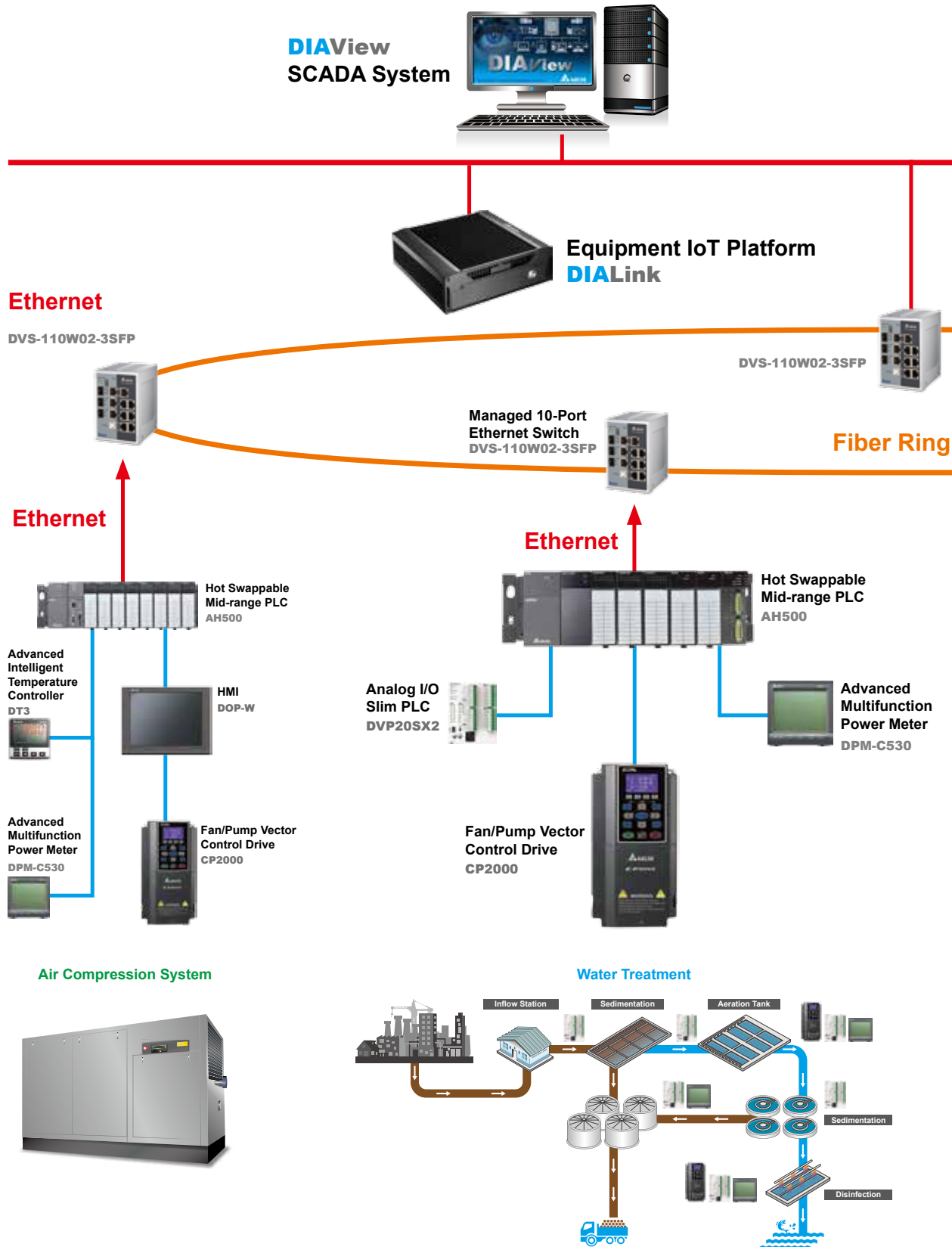
- Stable industrial communication, seamless integration with Delta PLC and I/O products
- WPF technology for intuitive displays and easy-to-navigate interfaces for data and I/O products visualization
- Flexible variables dictionary and batch editing parameters
- A variety of data visualization tools: reports, alarms, charts and trend graphs
- Robust and efficient alarm management
- VBScript language for easy programming
- Easy-to-use and flexible management program
- Reliable user authority management
- Highly real-time database for data visualization and analytics
- Fulfills the needs of various industrial environment when matched with fanless industrial PCs



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DIView SCADA System for Efficient Facility M



Monitoring and Management



DIAView
SCADA System

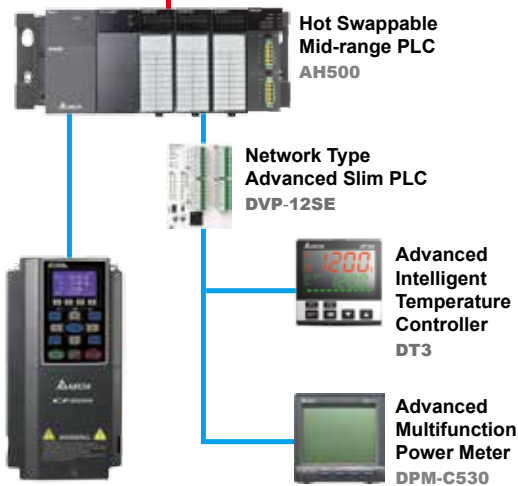


Equipment IoT Platform
DIALink

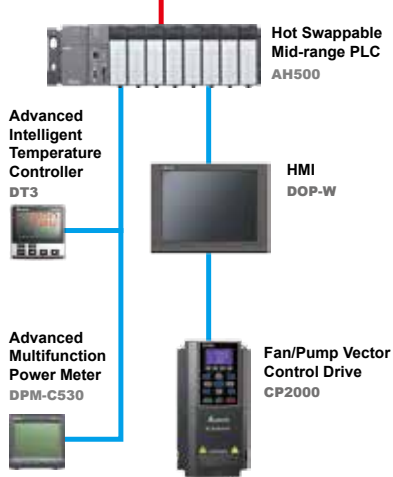


Ethernet

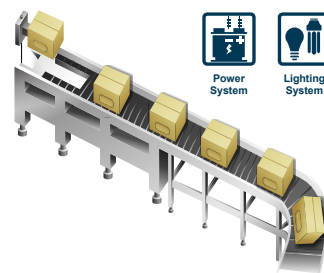
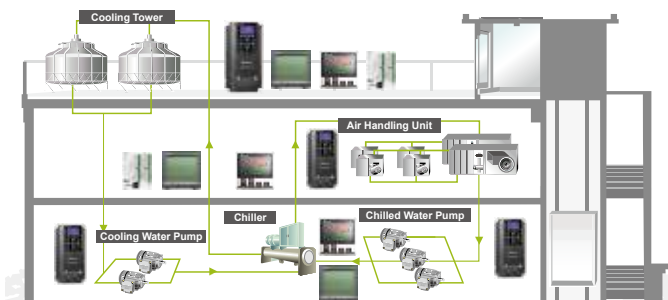
Ethernet



HVAC System



Production Line & Workshop Environment



Features

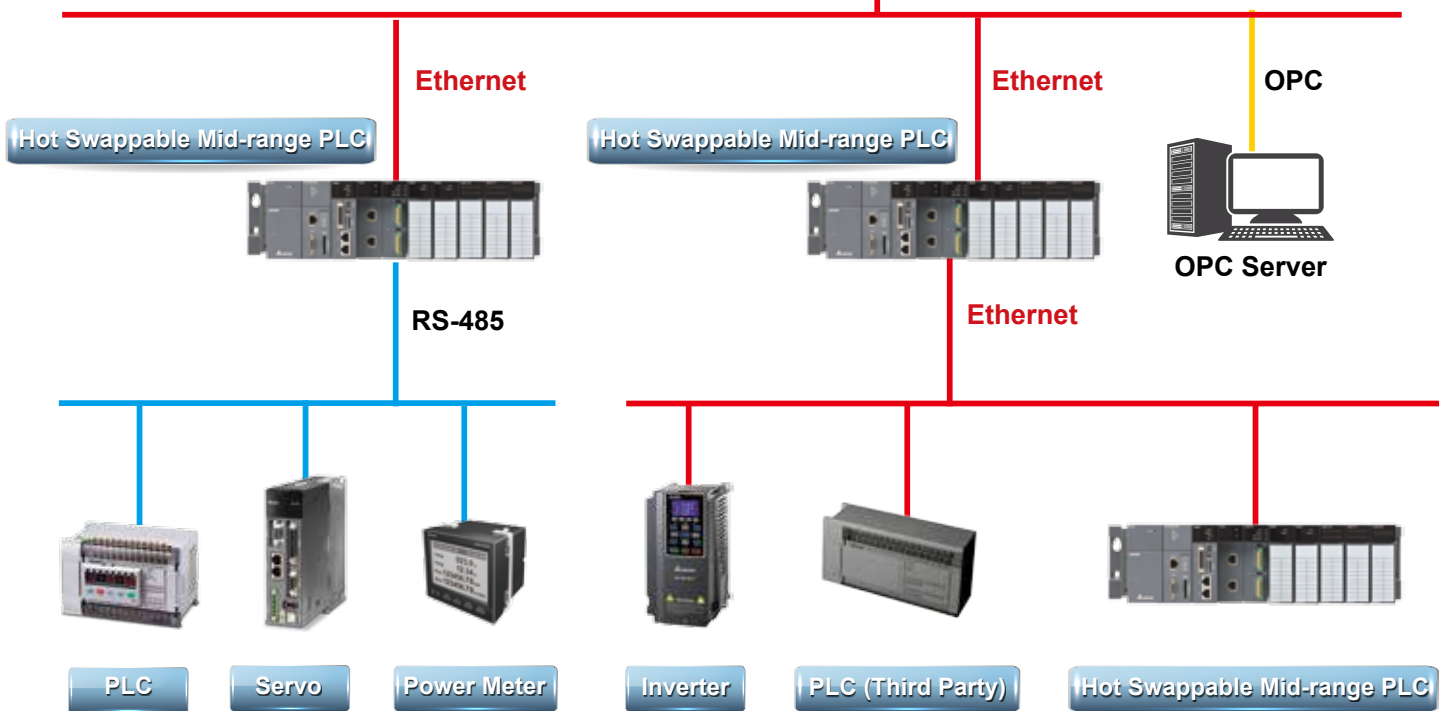
Stable and Reliable Industrial Communication

- ▶ Supports Modbus and OPC Server / OPC Client communication
- ▶ Seamless integration with Delta and third-party PLCs
- ▶ Built-in communication gateways
- ▶ Data simulation function
- ▶ Equipment auto turn on/off, sampling and data acquisition optimization, and communication retry function



OPC Modbus

DIAView
Monitoring
and Management

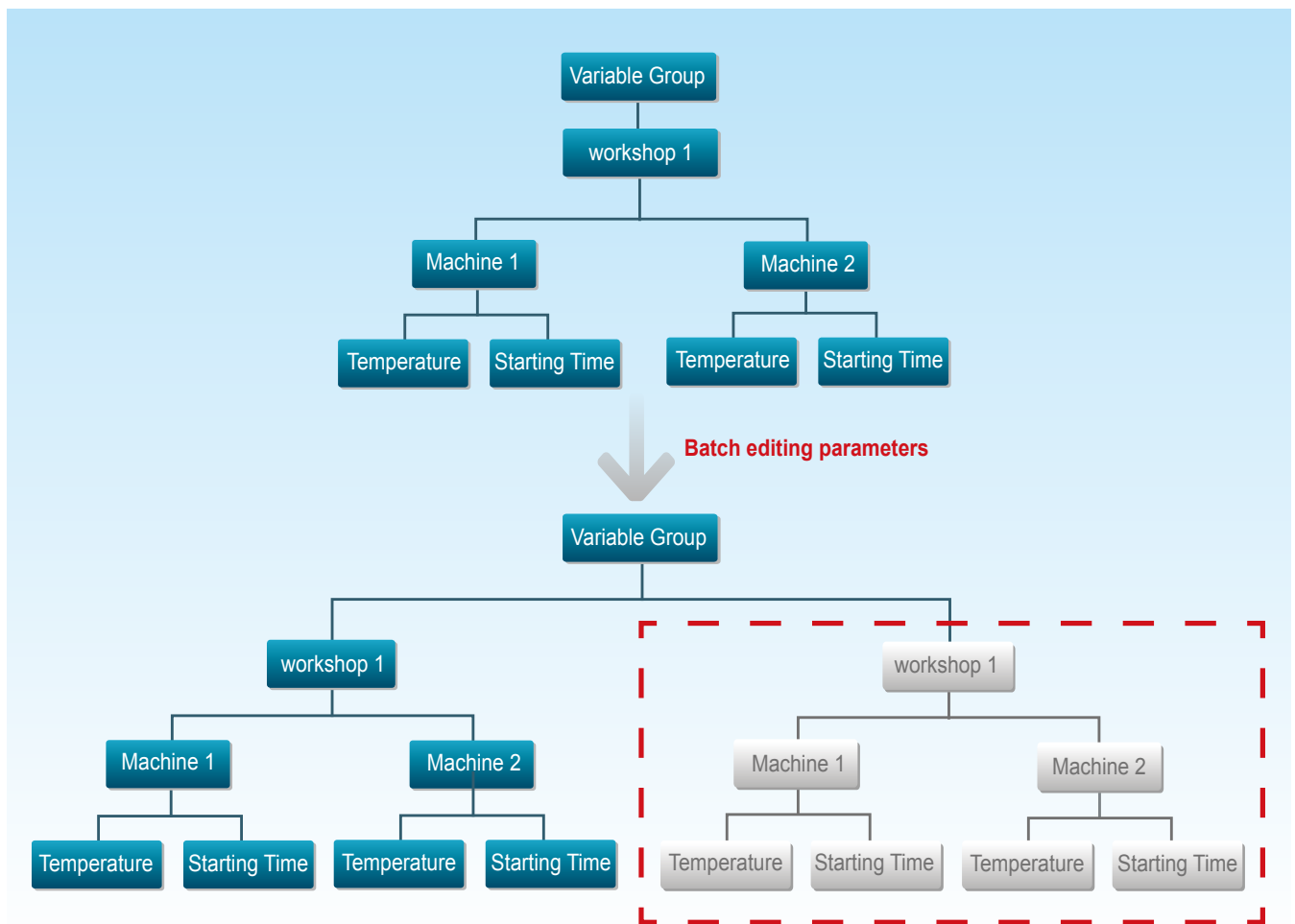
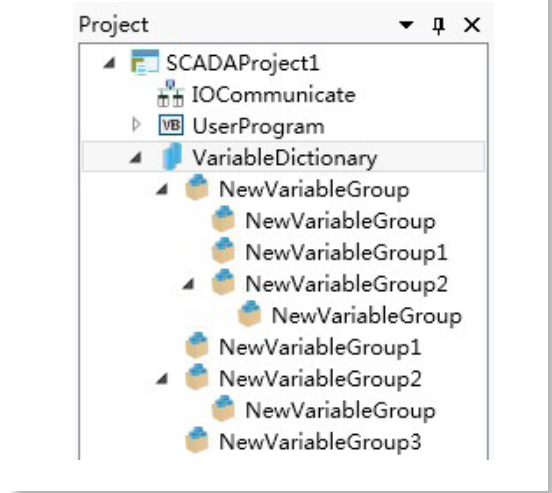


Features

Flexible Variables Dictionary

The variables dictionary is a collection of variables in a project, and the variable group is an unit for grouping and managing variables.

- ▶ Easy to add, delete and modify variables
- ▶ Supports variables managing and sorting to classify different variables group
- ▶ Quick and easy variables input/output and batch parameter editing management
- ▶ Variables branching and management via tree structure
- ▶ Batch parameter editing to improve development efficiency
- ▶ Supports smart variables searching/substitution, quotation browsing, usage statistics, and error detection



Flexible User Interface

Allows users to manage backstage via script, achieving comprehensive logic control

- ▶ Easy, flexible script editing
- ▶ Trigger function allows users to self-define trigger conditions according to system operation
- ▶ Timer trigger function allows automatic system operation based on a schedule defined by users



Efficient Recipe Management

- ▶ Provides variables browser for fast setting and recipe maintenance
- ▶ Supports VBScript interface for editing
- ▶ Recipe parameter input / output



Bread Recipe

Recipe Configuration				
Ingredients	Variable	Sweet	Salty	Coffee Flavor
Sugar	Variable1	85	10	30
Cream	Variable2	10	10	10
Salt	Variable3	5	80	10
Coffee Powder	Variable4	0	0	50

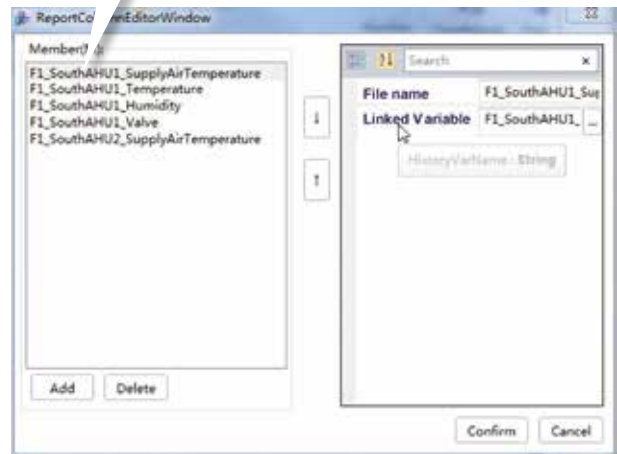
Features

Data Visualization Tools

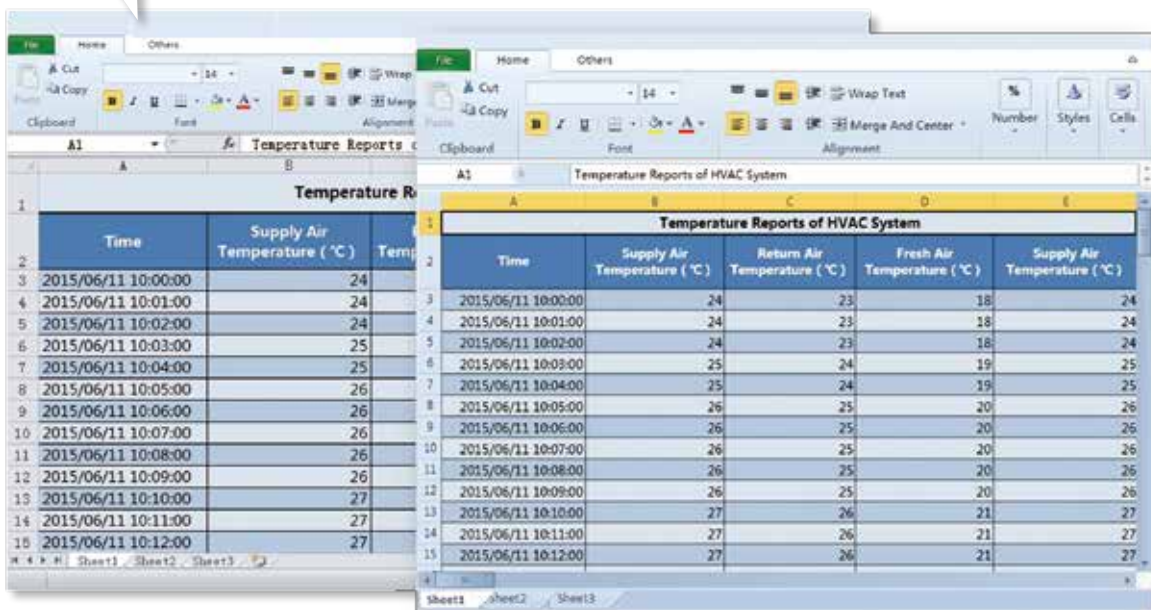
- ▶ Microsoft Office Excel editing interface
- ▶ Provides various sampling templates for users to self-define report formats
- ▶ Batch parameter editing function to enhance development efficiency
- ▶ Reports import and export functions for information print-out and timely analysis
- ▶ Supports VBScript for database editing
- ▶ Provides CRUD (Create, Read, Update, Delete) editing function



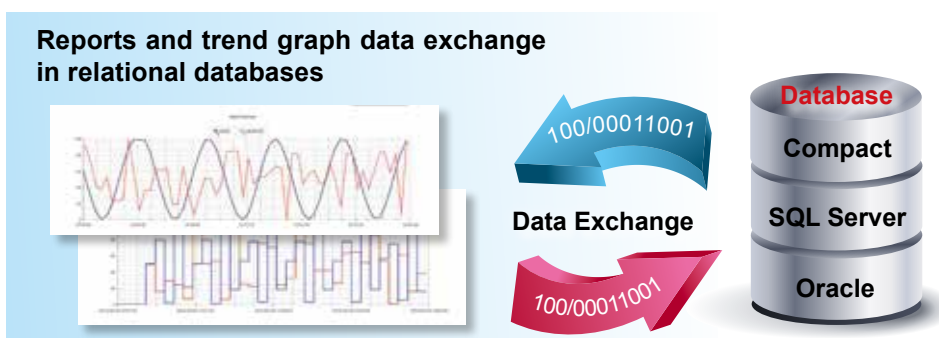
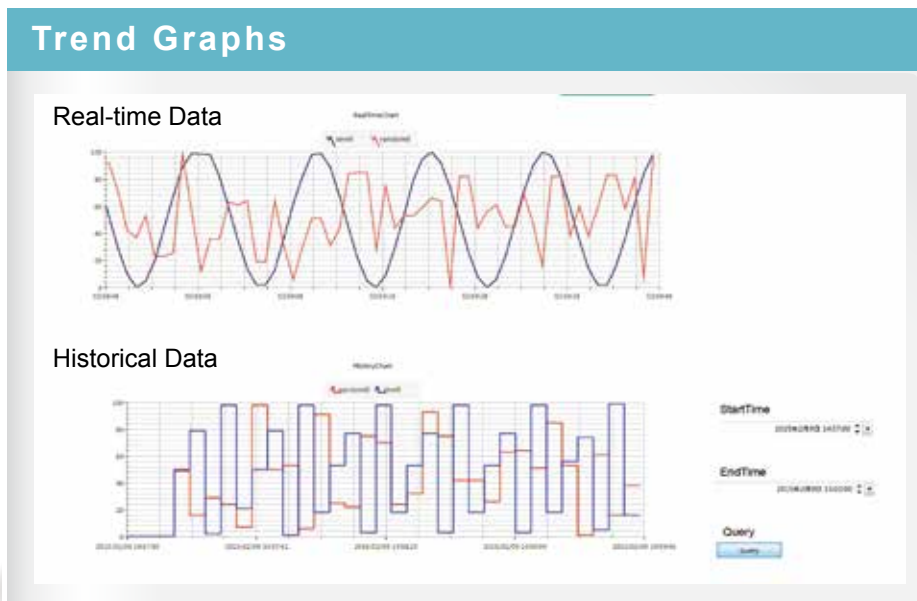
Variables and parameters configuration



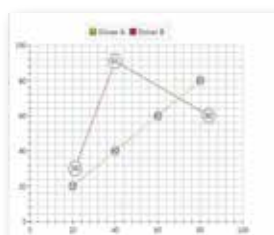
Reports Import and Export



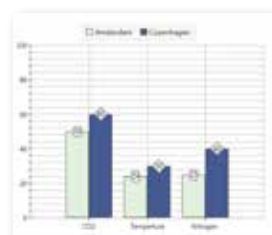
- ▶ Provides real-time data curve, history data curve, and X-Y curve to show various data information
- ▶ Supports 2D / 3D statistical data, including pie charts, bar charts, and more
- ▶ Supports database connection and data exchange
- ▶ Supports data export/import in Microsoft Office Excel format
- ▶ Provides real-time trend graph updates, printing, saving and image zoom in/out



Pie Chart



XY Chart

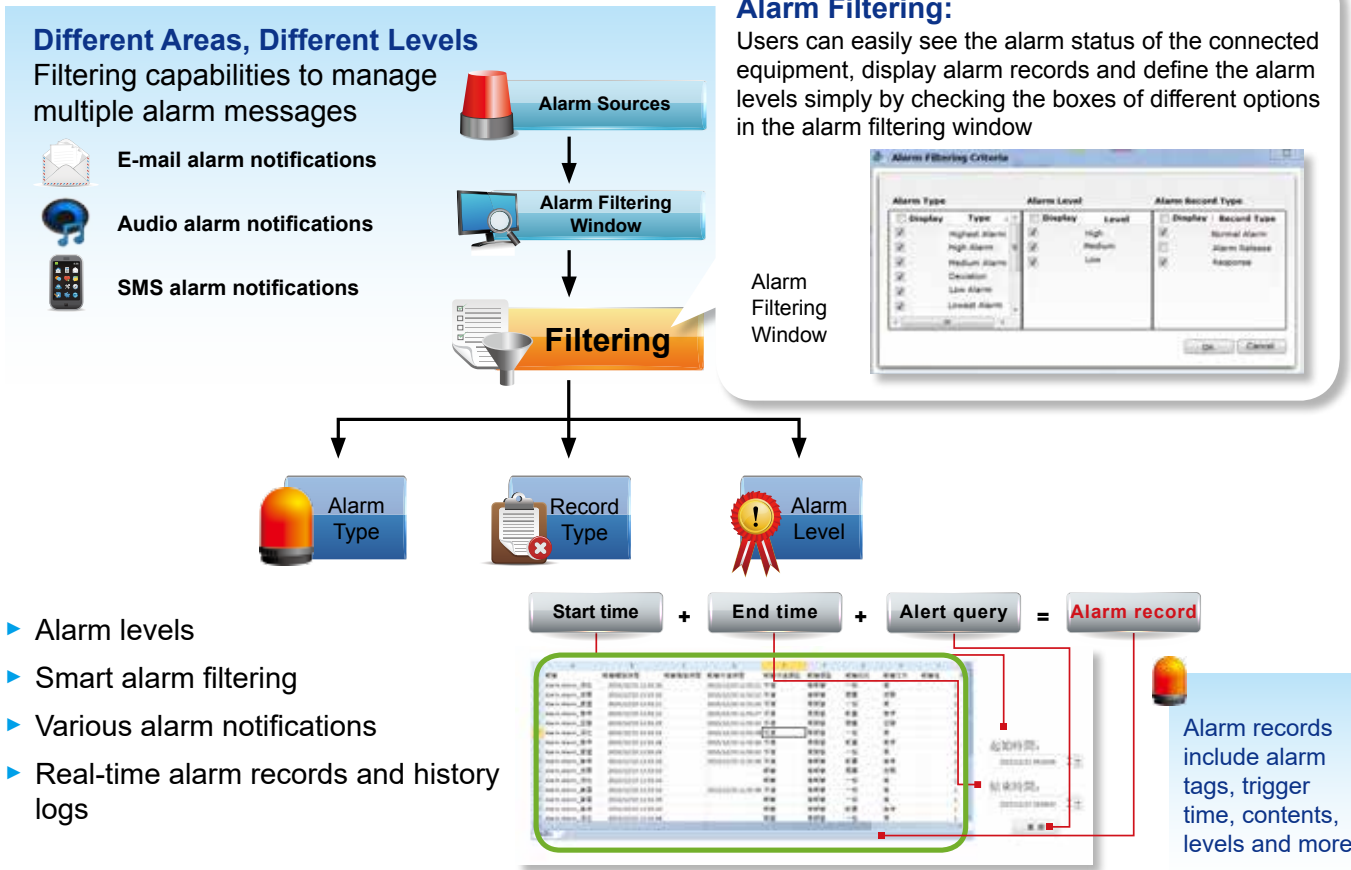


Bar Chart

Features

Robust and Efficient Alarm Management

The DIAView provides real-time alarms and early warning for faster response to critical situations. This prevents damage to equipment, ensures a safer working environment, and meets other operational needs.



Supports Third-party Database

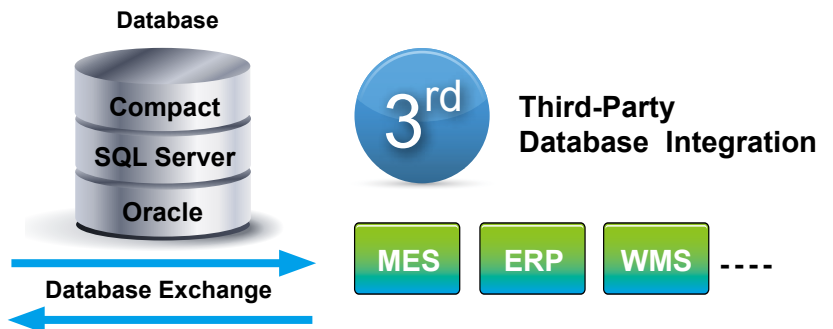


DIAView SCADA



Easy to expand data types

- ▶ Easy data exchange among different software/systems
- ▶ Supports SQL Server, SQL Compact, MySQL, Oracle Database
- ▶ Integrates with 3rd Party Databases



Reliable User Authority Management

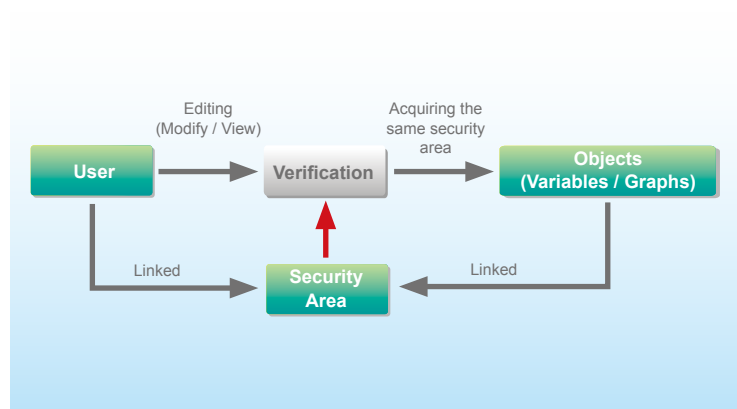
User authority management includes: login, logout, password change , and user adding / delete

- ▶ System administrators can operate in all security sections and manage all user accounts
- ▶ Allows administrating authority to add and delete users, and modify user information
- ▶ Operators can specify the security sections and perform tasks in these sections

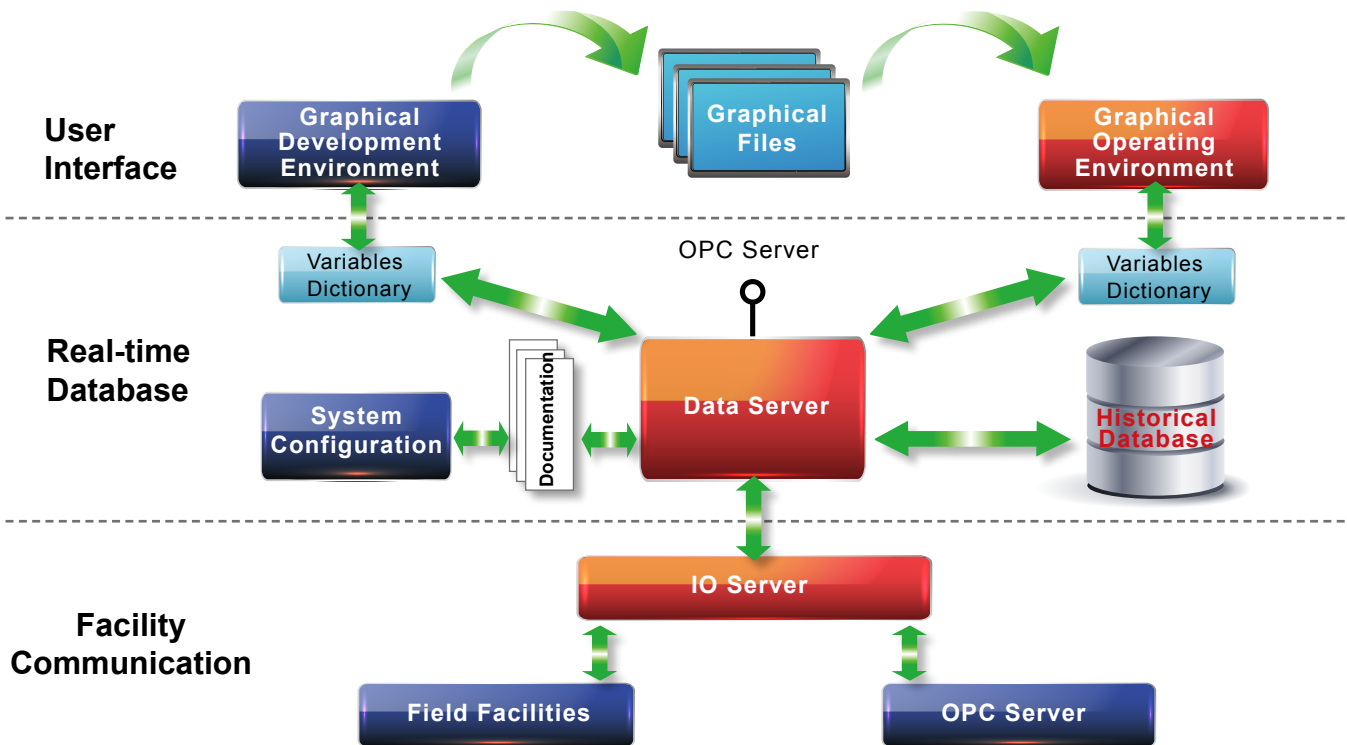
User Authority Table

Users	Authorities	Remarks
Administrator	Add and remove users, security area management, associated security areas and operator's authority	System default is for a one system administrator
Operator	Login, logout, and edit relevant screens and variables	Objects can only be edited in relevant security areas

Security Area



Open Software Structure



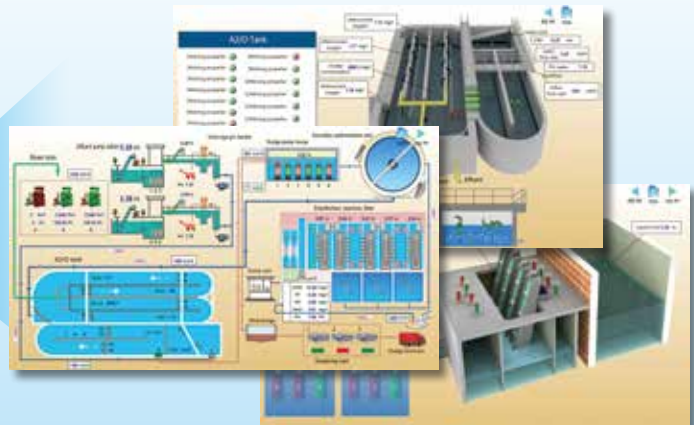
Applications

Wastewater Treatment Monitoring & Control System

- With DIAView, control and process monitoring of wastewater plants can be easily managed from the central control room. All process data and historical alarms / events can also be viewed and recorded for enhanced monitoring
- DIAView offers analysis and calculation functions, enabling various aspects of flow analysis and sophisticated water quality analysis and calculation. This helps to properly control chemical feed systems and automatically adjusts the chemical feed pump or valve, reducing associated risks and operation costs



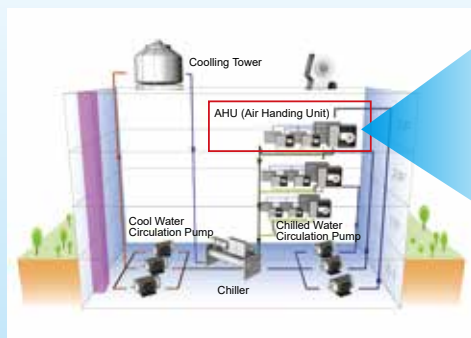
Wastewater Treatment Plants



Control and Process Monitoring of Wastewater Treatment Plants

HVAC Energy-Saving Monitoring & Control System

- Integrates DIAView, PLC and AC motor drives to fulfill requirements for constructing an intelligent HVAC monitoring and control system, providing energy savings of 20% ~ 60%
- DIAView helps to automatically adjust fan frequency and chiller load according to the indoor temperature and monitor the status of the air conditioning system in real-time for excellent HVAC control and monitoring
- Automatically adjusts fan frequency and the chiller unit according to indoor temperature, and monitors the density of indoor CO₂; and then lets in fresh outdoor air to reduce reliance on the air conditioning system, saving more energy and creating comfortable indoor environment for users



HVAC System Structure



HVAC System Intelligent Monitoring and Control

Electronic Equipment Inspection & Monitoring

- Coordinates PLCs, schedules the equipment to perform inspection, and provides group control functions
- Records daily production conditions, identify yield / defect rate, and provides data acquisition and inquiry functions



Electronic Inspection Equipment



Inspection and Monitoring of Electronic Equipment

Remote Control & Monitoring of 4-Color Printing Machines

- Provides remote and real-time monitoring for printing processes in the entire operation
- Suppliers can use the remote lock function to lock machines remotely for easier management



Actual Printing Machine



Remote Control & Monitoring of 4-Color Printing Machine

System Requirements of DIAView

Hardware / Software	System Requirements
CPU	Pentium 2.0GHz and above (Intel Core i3 and above is recommended)
Memory	2GB RAM and above is recommended
Hard Disk	Capacity: 10GB and above
Display	Supports resolution: 1024 x 768 or higher full-color display
Operating System	Windows 7 Professional / Ultimate (32-bit & 64-bit) Windows 8 Professional / Ultimate (32-bit & 64-bit) Windows 10 Professional / Ultimate (32-bit & 64-bit) Windows Server 2008 / 2012 (32-bit & 64-bit)
Web Installer	Microsoft .NET Framework 4.0

Software Licensing (Standalone Version)



Licensing

- ▶ DIAView licensing is calculated based on the I/O tags in customer's connected devices, and the software itself is free of charge
- ▶ When licensing is authorized, users can use a USB dongle key to carry out all authorizations. If unauthorized, trial session can be operated for 2 hours



I/O Tags

- ▶ Eight standard options: 64, 128, 256, 512, 1000, 1500, 3000 and unlimited



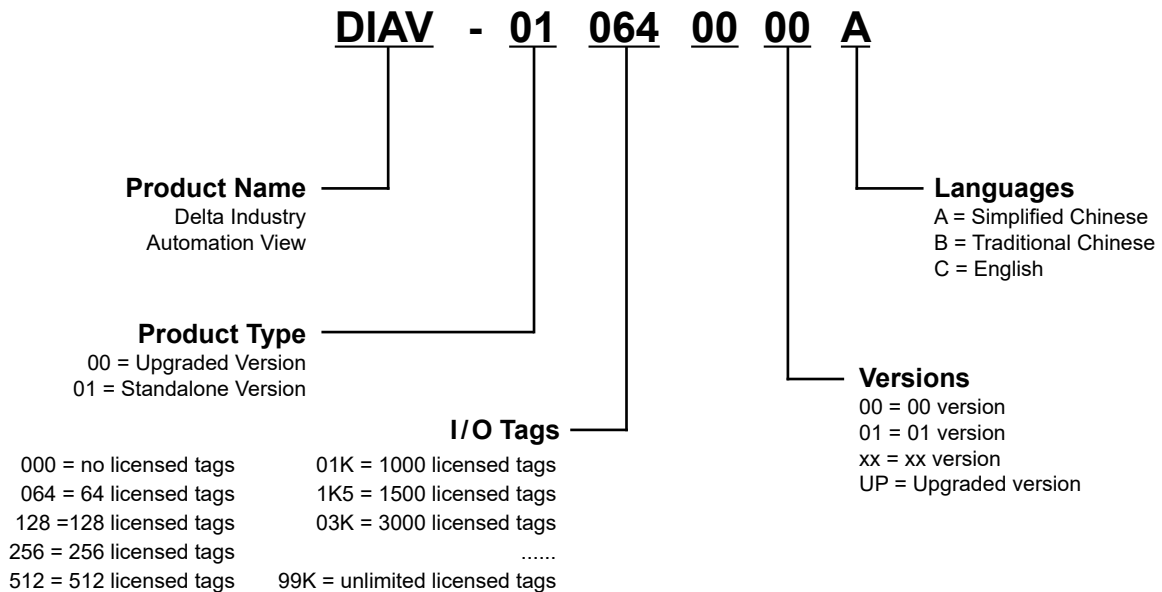
Cost of I/O Tags

- ▶ The DIAView SCADA System is charged by I/O tags (Please refer to ordering information)

Ordering Information

Product type	Product	Model Name	Descriptions
Standalone Version	DIAMView	DIAMV-010640000C	DIAMView SCADA standalone version (English), 64 tags, USB dongle key
	DIAMView	DIAMV-011280000C	DIAMView SCADA standalone version (English), 128 tags, USB dongle key
	DIAMView	DIAMV-012560000C	DIAMView SCADA standalone version (English), 256 tags, USB dongle key
	DIAMView	DIAMV-015120000C	DIAMView SCADA standalone version (English), 512 tags, USB dongle key
	DIAMView	DIAMV-0101K0000C	DIAMView SCADA standalone version (English), 1000 tags, USB dongle key
	DIAMView	DIAMV-011K50000C	DIAMView SCADA standalone version (English), 1500 tags, USB dongle key
	DIAMView	DIAMV-0103K0000C	DIAMView SCADA standalone version (English), 3000 tags, USB dongle key
	DIAMView	DIAMV-0199K0000C	DIAMView SCADA standalone version (English), unlimited tags, USB dongle key
Upgraded Version	DIAMView	DIAMV-0012800UPC	DIAMView SCADA standalone version, 64 upgraded to 128 tags, USB dongle key
	DIAMView	DIAMV-0025600UPC	DIAMView SCADA standalone version, 128 upgraded to 256 tags, USB dongle key
	DIAMView	DIAMV-0051200UPC	DIAMView SCADA standalone version, 256 upgraded to 512 tags, USB dongle key
	DIAMView	DIAMV-0001K00UPC	DIAMView SCADA standalone version, 128 upgraded to 1000 tags, USB dongle key
	DIAMView	DIAMV-001K500UPC	DIAMView SCADA standalone version, 1000 upgraded to 1500 tags, USB dongle key
	DIAMView	DIAMV-0003K00UPC	DIAMView SCADA standalone version, 1500 upgraded to 3000 tags, USB dongle key
	DIAMView	DIAMV-0099K00UPC	DIAMView SCADA standalone version, 3000 upgraded to unlimited tags, USB dongle key

Model Information



Global Operations

ASIA (Taiwan)



Taoyuan Technology Center (Green Building)



Taoyuan Plant 1



Tainan Plant (Diamond-rated Green Building)

ASIA (China)



Wujiang Plant 3



Delta Electronics



ASIA (Japan)



Tokyo Office

ASIA (India)



Rudrapur Plant
(Green Building)

EUROPE



Amsterdam, Netherlands

AMERICA



Research Triangle Park

▲ Factories 5 ■ Branch Offices 102 ● R&D Centers 6 ■ Distributors 824

Europe

Russia
Moscow

Ukraine

Iraq

Saudi Arabia

UAE

India

Chandigarh

Gurgaon

Kolkata

Ahmedabad

Mumbai

Pune

Hyderabad

Bangalore

Chennai

Coimbatore

Visakhapatnam

Jamshedpur

Myanmar

Thailand

Vietnam

Malaysia

Singapore

Indonesia

Philippines

China

Australia

Melbourne

New Zealand

Korea

Seoul

Daegu

Japan

Tokyo

Osaka

Shanghai

Wujiang

Taoyuan

Zhong Li

Taichung

Tainan

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Dalian

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Shijiazhuang

Shandong

Weifang

Qingdao

Jinan

Linyi

Jiangsu

Yangzhou

Nanjing

Nantong

Changzhou

Wuxi

Suzhou

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Shanghai

Anhui

Hefei

Zhejiang

Hangzhou

Ningbo

Taizhou

Wenzhou

Jiaying

Shaoxing

Fujian

Xiamen

Jiangxi

Nanchang

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Dongguan

Shenzhen

Guangzhou

Foshan

Guangxi

Nanning

Yunnan

Kunming

Sichuan

Chengdu

Shaanxi

Xian

Henan

Zhengzhou

Hubei

Wuhan

Hunan

Changsha

Chongqing



Smarter. Greener. Together.

Industrial Automation Headquarters

Delta Electronics, Inc.

Taoyuan Technology Center
No.18, Xinglong Rd., Taoyuan District,
Taoyuan City 33068, Taiwan
TEL: 886-3-362-6301 / FAX: 886-3-371-6301

Asia

Delta Electronics (Shanghai) Co., Ltd.

No.182 Minyu Rd., Pudong Shanghai, P.R.C.
Post code : 201209
TEL: 86-21-6872-3988 / FAX: 86-21-6872-3996
Customer Service: 400-820-9595

Delta Electronics (Japan), Inc.

Tokyo Office
Industrial Automation Sales Department
2-1-14 Shibadaimon, Minato-ku
Tokyo, Japan 105-0012
TEL: 81-3-5733-1155 / FAX: 81-3-5733-1255

Delta Electronics (Korea), Inc.

Seoul Office
1511, 219, Gasan Digital 1-Ro., Geumcheon-gu,
Seoul, 08501 South Korea
TEL: 82-2-515-5305 / FAX: 82-2-515-5302

Delta Energy Systems (Singapore) Pte Ltd.

4 Kaki Bukit Avenue 1, #05-04, Singapore 417939
TEL: 65-6747-5155 / FAX: 65-6744-9228

Delta Electronics (India) Pvt. Ltd.

Plot No.43, Sector 35, HSIIDC Gurgaon,
PIN 122001, Haryana, India
TEL: 91-124-4874900 / FAX : 91-124-4874945

Delta Electronics (Thailand) PCL.

909 Soi 9, Moo 4, Bangpoo Industrial Estate (E.P.Z),
Pattana 1 Rd., T.Phraksa, A.Muang,
Samutprakarn 10280, Thailand
TEL: 66-2709-2800 / FAX : 662-709-2827

Delta Energy Systems (Australia) Pty Ltd.

Unit 20-21/45 Normanby Rd., Notting Hill Vic 3168, Australia
TEL: 61-3-9543-3720

Americas

Delta Electronics (Americas) Ltd.

Raleigh Office
P.O. Box 12173, 5101 Davis Drive,
Research Triangle Park, NC 27709, U.S.A.
TEL: 1-919-767-3813 / FAX: 1-919-767-3969

Delta Greentech (Brasil) S/A

São Paulo Office
Rua Itapeva, 26 – 3º Andar - Bela Vista
CEP: 01332-000 – São Paulo – SP - Brasil
TEL: 55-11-3530-8642 / 55-11-3530-8640

Delta Electronics International Mexico S.A. de C.V.

Mexico Office
Vía Dr. Gustavo Baz No. 2160, Colonia La Loma,
54060 Tlalnepantla Estado de Mexico
TEL: 52-55-2628-3015 #3050/3052

EMEA

Headquarters: Delta Electronics (Netherlands) B.V.

Sales: Sales.IA.EMEA@deltaww.com
Marketing: Marketing.IA.EMEA@deltaww.com
Technical Support: iatechnicalsupport@deltaww.com
Customer Support: Customer-Support@deltaww.com
Service: Service.IA.emea@deltaww.com
TEL: +31(0)40 800 3800

BENELUX: Delta Electronics (Netherlands) B.V.

De Witbogt 20, 5652 AG Eindhoven, The Netherlands
Mail: Sales.IA.Benelux@deltaww.com
TEL: +31(0)40 800 3800

DACH: Delta Electronics (Netherlands) B.V.

Coesterweg 45, D-59494 Soest, Germany
Mail: Sales.IA.DACH@deltaww.com
TEL: +49(0)2921 987 0

France: Delta Electronics (France) S.A.

ZI du bois Challand 2, 15 rue des Pyrénées,
Lisses, 91090 Evry Cedex, France
Mail: Sales.IA.FR@deltaww.com
TEL: +33(0)1 69 77 82 60

Iberia: Delta Electronics Solutions (Spain) S.L.U

Ctra. De Villaverde a Vallecas, 265 1º Dcha Ed.
Hormigueras – P.I. de Vallecas 28031 Madrid
TEL: +34(0)91 223 74 20

Carrer Llacuna 166, 08018 Barcelona, Spain

Mail: Sales.IA.Iberia@deltaww.com

Italy: Delta Electronics (Italy) S.r.l.

Ufficio di Milano Via Senigallia 18/2 20161 Milano (MI)
Piazza Grazioli 18 00186 Roma Italy
Mail: Sales.IA.Italy@deltaww.com
TEL: +39 02 64672538

Russia: Delta Energy System LLC

Vereyskaya Plaza II, office 112 Vereyskaya str.
17 121357 Moscow Russia
Mail: Sales.IA.RU@deltaww.com
TEL: +7 495 644 3240

Turkey: Delta Greentech Elektronik San. Ltd. Sti. (Turkey)

Şerifaii Mah. Hendem Cad. Kule Sok. No:16-A
34775 Ümraniye – İstanbul
Mail: Sales.IA.Turkey@deltaww.com
TEL: + 90 216 499 9910

GCC: Delta Energy Systems AG (Dubai BR)

P.O. Box 185668, Gate 7, 3rd Floor, Hamarain Centre
Dubai, United Arab Emirates
Mail: Sales.IA.MEA@deltaww.com
TEL: +971(0)4 2690148

Egypt + North Africa: Delta Electronics

511 Cairo Business Plaza, North 90 street,
New Cairo, Cairo, Egypt
Mail: Sales.IA.MEA@deltaww.com