DELTA Newsletter

Industrial Automation Products

Smart Manufacturing
Hall 3, No. 218 | 26-28.11.2019 | Nuremberg

NEW

PJH open frame power supplies

Contents

1   News

1.1   ftp-site link

Just to let you know (again), you can find the latest info about our products (manuals, pictures, catalogues, data sheets, application notes, presentations, software, etc.) on our ftp-site.

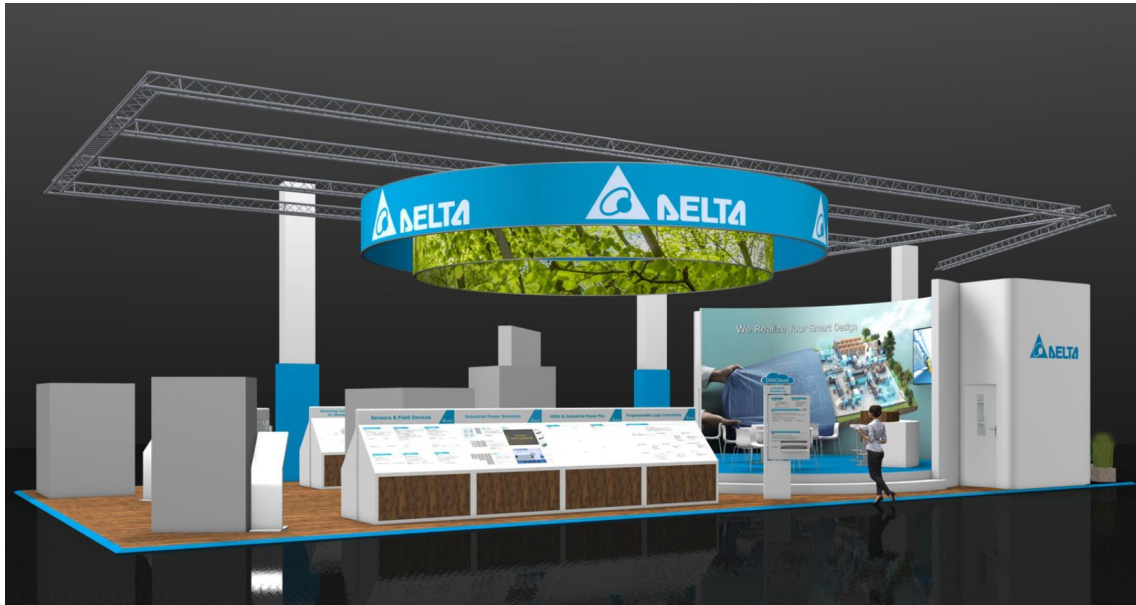ftp://den-eindhoven:BuPd2175@ftp2.delta-europe.com/deltronics-eindhoven/customer-service

Name and password are included in the link.
Name: den-eindhoven
Password: BuPd2175

1.2 SPS 2019

Delta will launch DIAStudio Engineering Software and showcase its portfolio of Drive Controls and Motion Solutions at SPS in Nuremberg 2019

Please contact Marketing.IA.EMEA@deltaww.com for a free entry voucher

Delta, a world-class provider of industrial automation solutions, will officially launch its new integrated engineering software DIAStudio at this year's SPS in Nuremberg on November 26-28. DIAStudio provides an all-in-one platform for selecting models, programming and setting up PLCs, HMIs, drives, and more, to enable effective and time-efficient machinery systems development. In addition to this new software, Delta will also be exhibiting its industrial power supplies, the new DMV series of machine vision products and industrial cameras, and the M series IP66 / CFP . Delta will be presenting all these products and demonstrating its pump drive with integrated software control at **Booth 218 in Hall 3**. A press conference to launch DIAStudio will be held on November 27.

"This year's SPS in Nuremberg is very exciting because we're announcing a new software suite that I think is going to save our customers a lot of time," said Patrick Hug, Senior Director EMEA Industrial Automation. "The great thing about the DIAStudio software is that it puts detailed technical information on Delta products right at the engineer's fingertips and allows them to use it seamlessly in the engineering process. You can literally click together the desired Delta products and their parameters, then send all that data on to your CAD software. This is going to save people mountains of time designing automation systems in factory settings all over the world. We're also exhibiting our line of cutting-edge machine vision products that are used on production lines in conjunction with robots."

DIAStudio integrated engineering software
The DIAStudio integrated engineering software is an all-in-one system designed to save time and simplify the machine setup process. Tasks such as product selection (including Delta HMIs, PLCs, servo drives and motors, and AC motor drives), PLC programming, quantitative parameter setting, machine tuning, and HMI integration can all be executed seamlessly with the following DIAStudio tools:

- DIASelector is an application for PCs and Android mobile devices that allows the user to select specific components of the machine system.
- DIADesigner picks up after a few intermediate steps engineering process have been completed. First, users export the model selection information from **DIASelector**. That information can then be imported into EPLAN, a CAD application that is popular around the globe for project planning and configuration. Once that work has been completed, **DIADesigner** comes into play to enable programming, parameter settings, tuning, and management.

- **DIAScreen** then lets users share tags between PLCs and HMIs or text panels.

The video below provides an overview of how the integrated DIAStudio software suite works in practice: https://www.youtube.com/watch?v=8UmQCUFuN4E

Machine vision products
Delta offers a broad portfolio of machine vision products that are ideal for specific automation applications. The **DMV** series is a range of camera support units capable of managing cameras that perform a variety of production-line functions including stain inspection, quality assurance checks, size measurements, and product counts. Below are just some of the capabilities the image processing of the DMV series makes possible:
- Area, stain, and blob inspection
- Edge position, width, count, and angle
- Pattern and coordinate search
- Shape matching
- OCV
- Coordinate and angle calculation
- Auto-alignment

Delta's **DIAVision** products support camera applications for robotic assembly arms. In combination with a PC-based controller, one or more Delta GigE cameras, servo drives, and SCARA robots, the DIAVision-VGR provides robot guiding and 2D positioning with up to four cameras. Cameras can be mounted in fixed positions or on the robot arm itself. The DIAVision series is popular in the food and beverage, electronics, logistics, and packaging industries. The **VIS series** is Delta's entry-level machine vision offering for defect detection, product inspection, and barcode reading. Delta also supplies the **DMV series cameras**.

Visit the Delta booth to find out more about "Automation for a Changing World" at SPS in Nuremberg 2019 at Booth 218, Hall 3, from November 26 to 28 in Germany.

2   Product update

2.1   UPDATE – Firmware of DVP-ES2/EX2/ES2-C is updated from V3.60 to V3.62

Series	Models	Firmware Version	Release Date
DVP Series	ES2	V3.60→ V3.62	2019.10.15 (W1942)
	EX2		
	ES2-C		

Changes:
All the issues below can be fixed by upgrading firmware to V.3.62 or later.
1. **Issue:** When using DHSZ and DCNT instructions to enable C247 and C248 to count, the results of comparison and outputs which are specified by DHSZ will go wrong.
2. **Issue:** When the marking function M1156 is enabled and it is triggered in the last ramp-down section, chances are the marking does NOT function and the pulse does NOT stop outputting.
3. **Issue:** When high speed position control instructions such as DDRVI and DDRVA are used to enable Y0/Y2, if using M1108/M1110 to pause the pulse output in the ramp-up section, the system misinterprets the output is completed and cannot stop pausing and start outputting again.
4. **Issue:** When M1035 is ON and uses input point X7 to switch the PLC to RUN or STOP; it is possible the use of X7 to make the PLC RUN or STOP may fail in the first attempt. (It works fine in the second try though.)

Improvements:
1. Optimized the data storing method. Strengthen the identity authentication for data protection and to protect PLC programs in the memory card from stolen.

NOTE:
Before upgrading to V3.62, remember to save the PLC programs as a copy. After firmware upgrade is complete, restore the PLC to default settings and then turn the device off. Supply PLC with power again and download the PLC program copy to the PLC. And the PLC is ready to run.

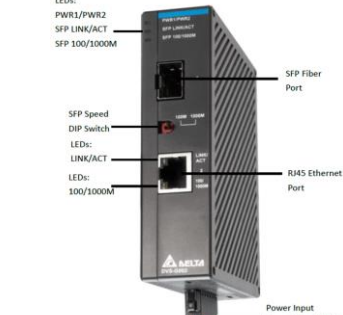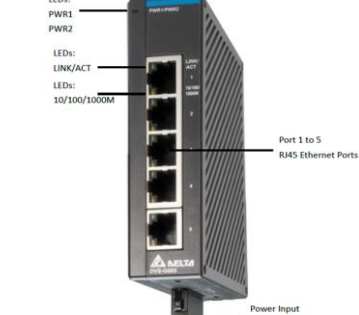## 2.2 NEW – DVS-G002I00C-TF, DVS-G005I00C, and DVS-008W00-M12

DVS Series are Layer 3 and Layer 2 Industrial Ethernet Switches providing high-density performance especially in harsh and hazardous industrial environments.

The Layer 3 switches route and determine network paths to correctly transmit packets to the designated IP address for exchanging data between different subnets. Handling routing packets by hardware, Delta Layer 3 switches combine the latest technology in hardware and software engineering to adapt to rugged industrial environments. With fast-processing speed as an advantage, it can achieve network transmission that is as fast as or close to wired communicating speed.

With their built-in WEB-based management interface, they offer an easy-to-use, platform-independent management and configuration facility. Powerful traffic management of IGMP and QoS features to take full advantage of constrained network resource and guarantee the best performance.
DVS Ethernet Switches support DELTA ONE RING, ONE CHAIN and STP/RSTP/MSTP for network redundancy to maximize system reliability. Excellent ruggedized hardware design with 12 to 48VDC redundant power inputs, wide operating temperature range of -40℃ to 75℃ without the use of internal fans, and LEVEL 3&4 of immunity to electromagnetic interference (EMI), well beyond what is currently delivered by commercial grade networking products, providing superior reliability.

UL, CE, FCC, RCM and CCC certifications ensure reliable operation.

DVS-G002I00C-TF	DVS-G005I00C	DVS-008W00-M12
Industrial 1-Port 100/1000Base-T to 100/1000Base-SFP Media Converter	Unmanaged Industrial 5-Port GbE Ethernet Switch	Unmanaged Industrial 8-Port FE M12 IP67 Ethernet Switch

Advantages:

• 12 to 48 VDC redundant terminal block power input • Supports Link fault Pass-Through(LFP) • Jumbo frame size up to 10K Bytes • -20℃ to 70℃ operating temperature	• 12 to 48 VDC redundant terminal block power input • Jumbo frame size up to 10K Bytes • -20℃ to 70℃ operating temperature • Compatible with various industrial protocols, including EtherNet/IP, Profinet, CC-LINK IE, and DNP 3.0	• Strong 5g resistance designs with M12 connectors for extreme vibration environment • IP67-rated waterproof and dustproof metal housing to prevent penetrating water and micro dust ingress • Transparent transmission of VLAN tagged packets • 12 to 48 VDC redundant power input • -40℃ to 75℃ wide operating temperature • Compatible with various industrial protocols, including EtherNet/IP, Profinet, CC-LINK IE, and DNP 3.0

Technology:

Standards	IEEE 802.3u 100Base-T(X) and 100Base-FX IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X IEEE 802.3x Flow Control	Standards	IEEE 802.3 10Base-T IEEE 802.3u 100Base-T(X) IEEE 802.3ab 1000Base-T IEEE 802.3x Flow Control	Standards	IEEE 802.3 10Base-T IEEE 802.3u 100Base-T(X) IEEE 802.3x Flow Control
Processing Type	Store and Forward IEEE 802.3x flow control in full duplex Back- pressure flow control in half duplex	Processing Type	Store and Forward IEEE 802.3x flow control in full duplex Back- pressure flow control in half duplex	Processing Type	Store and Forward IEEE 802.3x flow control in full duplex Back- pressure flow control in half duplex

Interface:

Gigabit Ethernet Ports	RJ45 Ports	100/1000Base-T, auto MDI/MDI-X	Gigabit Ethernet Ports	RJ45 Ports	10/100/1000Base-T, auto MDI/MDI-X, auto negotiation	Ethernet Ports	M12 Ports	D-coded 4-pin female connector, 10/100Base-T(X), auto MDI/MDI-X, auto negotiation
	SFP Ports	100/1000Base-SFP						
DIP Switch		100M or 1000M selection						

Ethernet performance:

Jumbo Frame	10K Bytes	Switching Capacity	10Gbps, wire-speed, non-blocking switching fabric	Switching Capacity	1.6Gbps, wire-speed, non-blocking switching fabric
Link fault Pass-Through	Present	MAC Table	8K	MAC Table	2K
		Packet Buffer Memory	1M bits	Packet Buffer Memory	448K bits

Power requirement:

Input Voltage	2 sets, 12 to 48V$_{DC}$	Input Voltage	2 sets, 12 to 48V$_{DC}$	Input Voltage	M12 Port: 1 A-coded 4-pin male connector
Power Consumption	1.8W Max	Power Consumption	3.6W Max		2 sets, 12 to 48V$_{DC}$
				Power Consumption	2W Max

Physical:

Housing	IP40 protection, PC case	Housing	IP40 protection, PC case	Housing	IP67 protection, metal case
Dimensions	110 mm(H) x 28 mm(W) x 75 mm (D)	Dimensions	110 mm(H) x 28 mm(W) x 75 mm (D)	Dimensions	194 mm(H) x 62 mm(W) x 25 mm (D)
Weight	110g	Weight	125g	Weight	355g
Installation	Industrial DIN-Rail and wall mounting	Installation	Industrial DIN-Rail and wall mounting	Installation	Industrial DIN-Rail and wall mounting

Environmental Limits:

Operating Temperature	-20℃ to 70℃(-4°F to 158°F)	Operating Temperature	-20℃ to 70℃(-4°F to 158°F)	Operating Temperature	-40℃ to 75℃(-40°F to 167°F)
Storage Temperature	-40℃ to 85℃(-40°F to 185°F)	Storage Temperature	-40℃ to 85℃(-40°F to 185°F)	Storage Temperature	-40℃ to 85℃(-40°F to 185°F)
Ambient Relative Humidity	5% to 95% (non-condensing)	Ambient Relative Humidity	5% to 95% (non-condensing)	Ambient Relative Humidity	5% to 95% (non-condensing)

Approval:

Safety	UL 61010, IEC 62368-1	Safety	UL 61010, IEC 62368-1	Safety	UL 61010, EN 62368-1
EMI	FCC 47 CFR Part 15 Subpart B Class A, IEC 61000-6-4, EN 55032, AN/NZS CISPR 32	EMI	FCC 47 CFR Part 15 Subpart B Class A, IEC 61000-6-4, EN 55032, AN/NZS CISPR 32	EMI	FCC 47 CFR Part 15 Subpart B Class A, IEC 61000-6-4, EN 55032, EN 55011, AS/NZS CISPR 32
EMS(IEC 61000-6-2, EN55024)	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-17	EMS(IEC 61000-6-2, EN55024)	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-17	EMS(IEC 61000-6-2, EN55024)	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8

Ordering information:

Product		Port Combination		Interface		
Model Name	Operating Temperature	100/1000Base-T	100/1000Base-SFP	DI	DO (Relay)	Power Input
DVS-G002I00C-TF	-20℃ to 70℃	1	1	---	---	2

Product		Port Combination			Interface		
Model Name	Operating Temperature	10/100/1000Base-T	10/100Base-T(X) Combo 100Base-SFP	10/100/1000Base-T Combo 100/1000Base-SFP	DI	DO (Relay)	Power Input
DVS-G005I00C	-20℃ to 70℃	5	---	---	---	---	2

Product		Port Combination			Interface		
Model Name	Operating Temperature	10/100Base-T(X)	10/100Base-T(X) Combo 100Base-SFP	10/100/1000Base-T Combo 100/1000Base-SFP	DI	DO (Relay)	Power Input
DVS-008W00-M12	-40℃ to 75℃	8	---	---	---	---	2

Release date:

Model Name	Date
DVS-G002I00C-TF	1-Sept-2019
DVS-G005I00C	1-Sept-2019

Model Name	Date
DVS-008W00-M12	1-Aug-2019

2.3   UPDATE – VFD-EL firmware v1.15 updated to v1.16

Changes:

Version 1.15	Version 1.16
When the parameters are copied back to the drive, the parameter Pr10.11 is not written back to the EEPROM.	When the parameter is copied back to the inverter, the parameter Pr10.11 is written back to the EEPROM.

Release:

Firmware Version	Switching Period	
V1.16	Wujiang	W1927
	Taoyuan	W1936

2.4   UPDATE – VFD-MS300 hi-speed firmware updated from V5.03 to V5.04

Corrections

	Version 5.03 problem	Version 5.04
1	When Pr.00-04=7 keyboard displays the speed information, the speed information does not return to 0 when standby state.	When Pr.00-04=7 keyboard displays the speed information, when the standby state is entered, the speed information is returned to 0.
2	Pr.00-23 running direction selection, after setting prohibiting reverse rotation, re-power will return to default setting Pr.00-23=0 no function	After setting Pr.00-23 prohibited to reverse, re-power will store the set value.
3	When setting Pr.00-07 to decrypt and Pr.00-08 to set a new password. If Pr.00-07 is set incorrectly, the number of errors will not be recorded.	When setting Pr.00-07 decryption and Pr.00-08 to set a new password, the error number will be recorded after Pr.00-07 is set incorrectly.
4	When setting operation command is external terminal control (Pr.00-21=1), quick start (Pr.02-00=4~6) and carrier 2k (Pr.00-17=2), the inverter will falsely trigger the error code GFF. /OL.	The low carrier and computing quick start current for have been modified.
5	When STO occurs, if the operation command is executed again, when Pr.06-44 = 1, the error will be automatically reset to zero when the STO error is eliminated.	Pr.06-44=0 : external STO is removed, STO error needs to be RESET command to clear. Ignore Pr.02-35 setting, waiting for the new running command. Pr.06-44=1 : when the external STO is removed,STO error is automatically cleared. Regardless of the 02-35 setting, the forced stop is maintained and the new operation is awaited.

6	multi-function output terminal (AFM) has no action when setting communication card (Pr.03-20=22).	Multi-function output terminal (AFM) can set output value through communication card (Pr.03-20=22).
7	Motor Y-△ switching If MI (function 29 & 30) / MO (function 31 & 32) setting is completed and operation is completed normally, at this time, set MO to 0 (no function) and the operation command Y-△ switching is still valid.	Motor Y-△ switching If MI (function 29 & 30) / MO (function 31 & 32) setting is completed and operation is completed normally, at this time, set MO to 0 (no function) and the operation command Y-△ switching is invalid.
8	When the MI multi-speed switching is set, if the switching signal frequency exceeds the MI response speed, all MI terminals will be invalid.	When the frequency command source Pr.00-20=7 is adjusted on Keypad, the decimal point of the F page can be displayed stably.
9	When removing CMM-PD01, if you use CC01 to display ECCb warning, it will be inconsistent with KPMS-LE01.	When removing CMM-PD01, if you use CC01 to display ECCb warning, it will be consistent with KPMS-LE01.
10	If Pr.09-01 or Pr.09-04 change value during parameter copying, communication will be disconnected immediately and the parameter copy will stop.	If Pr.09-01 or Pr.09-04 change value when parameter copying,
11	When Pr.01-45=one decimal, Pr.01-12 can be set to 6000.0, then Pr.01-45 is set back to two decimal, and the value of Pr.01-12 is incorrect.	When Pr.01-45=one decimal , set Pr.01-45 back to two decimal places, and the parameter display value is correct.
12	Output current and frequency display are incorrect when the Base Block (B.B.) interrupt occurs	When Base Block (B.B.) interrupt occurs, output currents and output frequency are cleared to 0, corresponding to the manual diagram.
13	After reset, the application macro user-defined parameters will be saved but the settings will return to the default values.	When selecting the reset option parameter 00-02=11 or 12, first save the current self-set application macro parameter value, and then fill in the set value after initialization.
14	When using a PM motor or an IM motor (Motor 2), the speed is incorrectly controlled when using the CANopen communication card to control the speed command.	The motor parameters are initialized according to the selected motor type and the speed is correctly controlled.
15	The status of the MI by CANopen communication card is incorrect.	The status of the MI by CANopen communication card is correct.
16	VFDSoft caused error when copying parameters.	Correct judgment error mechanism, VFDSoft copy parameters normally.
17	For over-torque detection level, HD and ND (Pr.00-16) set the same detection level.	For over-torque detection level, HD and ND (Pr.00-16) can be set separately.
18	When communication card is removed, recognition does not return to default value.	When communication card is removed, hot-swap design of the hardware-added card is modified to be continuously recognized after power-on.
19	As the motor drive's frequency decreases to zero and goes into the standby modem, if the RUN/STOP commands constantly switch quickly, there is a risk that the motor's frequency will stay at its lowest Fmin(0.5Hz)	We have improved the programs in standby mode. So that when switching between RUN and STOP command at the standby mode, the motor drive won't stay at the lowest frequency Fmin(0.5Hz).
20	Over-torque detection action function does not refer to the motor number action set by multi-group motor selection function.	Over-torque detection action selection will be based on the action program set by the selected motor number.

| 21 | Content of Multi-function Display (User Defined) :
1. Pr.00-04=25 Overload count display character "h."
2. Pr.00-04=46 Auxiliary frequency value (U.) (unit: Hz) cannot display by KPC-CC01
3. Pr.00-04=47 Display master frequency value (A.) (Unit: Hz) cannot display by KPC-CC01
4. Pr.00-04=48 Display frequency value after addition and subtraction of auxiliary and master frequency (L.) (Unit: Hz) cannot display by KPC-CC01 | Content of Multi-function Display (User Defined) :
1. Pr.00-04=25 Overload count display character "o."
2. Pr.00-04=46 Auxiliary frequency value display (U.) (unit: Hz) by KPC-CC01
3. Pr.00-04=47 Display master frequency value (A.) (Unit: Hz) by KPC-CC01
4. Pr.00-04=48 Display frequency value after addition and subtraction of auxiliary and master frequency (L.) (Unit: Hz) by KPC-CC01 |

Changes:

1	Pr.02-23 default value change to 2.0 Hz
2	Pr.00-35 (Source of auxiliary frequency) and Pr.00-36 (Selection of master and auxiliary frequency command) are changed to reserved.
3	When the inverter firmware is updated, the keypad is displayed from "dELtA" to: 1. The character displayed when booting is "88888" (as shown in Figure 1) 2. After receiving the PC programming command, it displays "boot" (as shown in Figure 2). 3. Display the progress bar "o o o o" when burning (as shown in Figure 3) Figure 1 Figure 2 Figure 3
4	Copy parameter function changes : ➢ Pr.00-07 protection decoding input, set 9999 decoding function, changed to "not set during operation". ➢ When Pr.00-08 is set to be encrypted, parameter copy is performed by Pr.00-07. After copy is completed, the password lock will automatically re-enable. ➢ Set Pr.00-07 to 0 when correctly decoded ➢ Password three times in error. After the fault code Pcod is jumped out, the password cannot be set again; and the drive stops outputting, cannot be reset until powered off and re-start again. ➢ After password is decoded, Pr.00-07 decodes three consecutive errors and does not jump out of the fault code Pcod. ➢ Warning display code SE1, SE2, keyboard COPY error warning, changed to non-changeable.

New functions:
1. Add MS300 high speed communication definition code : 52
2. Add delay operation mechanism for Free Run judging by Pr.07-08 B.B.(Base Block) interrupt time
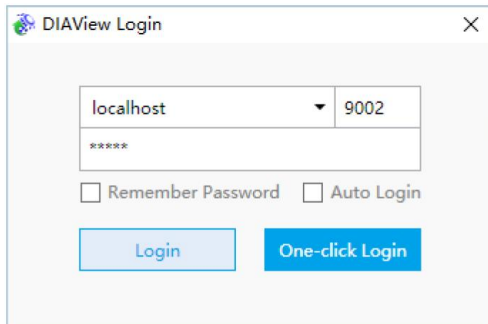3. Add PLC CATCH function.

Release:

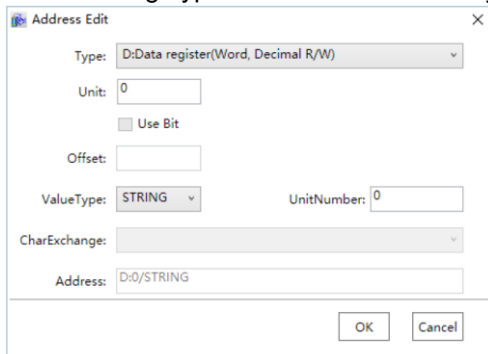| Firmware Version	Switching Period	
V5.04	Taoyuan	T1935
V5.04	Wujiang	T1930

## 2.5 UPDATE – DIAView version 2.6.1 released

Changes:

1. Modified the client login interface. Users can start DIAView server and local client simultaneously on the server side with one click.

2. Added 'string' type in the address value type of Mitsubishi driver.

3. Fixed an issue that when the created IO address exceeded the range supported by the PLC registers, the development environment crashes.
4. Fixed the issue that scripts can NOT obtain the 'status' property in the value of alarm variable during operation.
5. Fixed the issue that group filtering is not clear in the alarm window.
6. Fixed the issue that users can NOT obtain the number of alarms on the client side. (AlarmCmd.AlarmCount)
7. Fixed the issue that users cannot dynamically modify the alarm value of alarm variable on the client side.
8. Fixed the issue that the date in the history curve X-axis can NOT be displayed correctly.
9. Fixed the issue that the extended domain scripts can NOT be used on the client side.
10. Fixed the issue that scripts can NOT obtain the Text-property value for the drop-down list option during operation.
11. Restored the font and color can be set in XY axis for any curve.
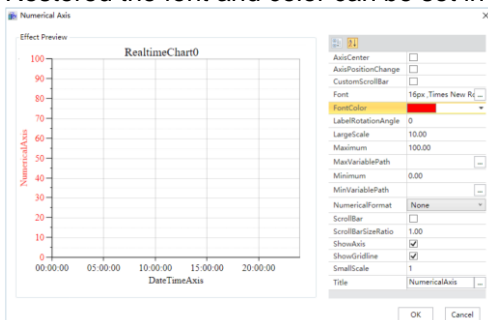
2.6 UPDATE – Added two more securing brackets for DIAVH-PPC

Added two more securing brackets for DIAVH-PPC 15-inch, 17-inch, and 19-inch models. There will be 6 securing brackets in the package. You can install them on the right, left and top of the device. (For the additional two brackets, two bracket holes are added as the image shown below.)
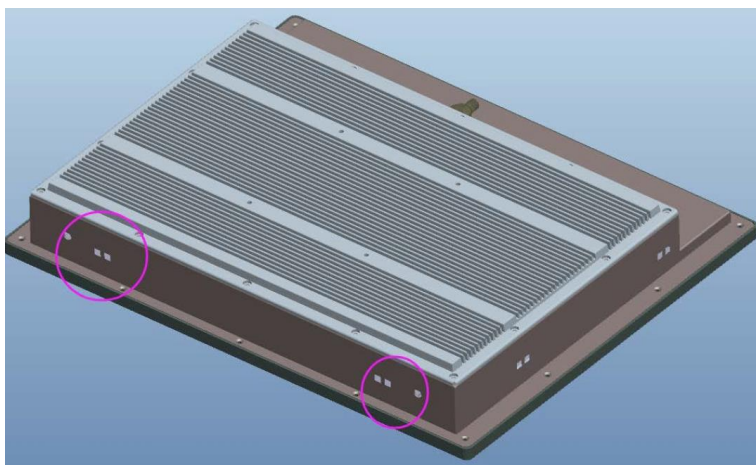
Applicable model names (part number):

PPC	DIAVH-PPC15x10x, DIAVH-PPC15x10xA.
	DIAVH-PPC17x10x, DIAVH-PPC17x10xA.
	DIAVH-PPC19x10x, DIAVH-PPC19x10xA.

Release date: July 15, 2019 (Week 1929)

2.7 NEW – PJH series open frame power supply with 300W output power

300W 3" x 5" Open Frame Power Supply for IEC/EN 60335 and IEC/EN 61558 Applications

Delta Electronics introduces the new PJH series of open frame power supply with 300W output power. PJH-24V300WBCA and PJH-36V300WBCA provide up to 240W power convection cooled without additional metal plate. With external fan cooling, they can provide 300W output power across a wide operating temperature range from -25°C to +70°C. The design is one of the few to meet both IEC 60335 and IEC 61558 in a compact 240W 3" x 5" convection cooled design, suitable for limited space in household applications. The PJH series is certified to IEC/EN/UL 62368-1 and complies with OVC III for harsh industrial and farming applications.

1. IEC 60335-1, Pollution Degree (PD) 3
2. IEC 61558-1 and IEC 61558-2-16
3. Earth leakage current < 0.75mA
4. Glow wire test 550°C, 750°C (te – ti ≤ 2s), 850°C
5. Input no load power consumption < 0.5W

Highlights & Features
- 300W fan cool, 240W convection cool
- Built-in active PFC, remote On/Off, remote sense, power good signal and 12VSB (6W) or optional 5VSB (6W)
- Class I or Class II (double isolation) configuration with universal AC input voltage range
- High efficiency up to 94.0%
- Extreme low temperature cold start at -40°C
- Approval for Pollution Degree 3
- Major safety approvals include IEC/EN/UL 60950-1, IEC/EN/UL 62368-1, IEC/EN 60335-1, IEC/EN 61558-1 and IEC/EN 61558-2-16

2.8   NEW – DOPSoft v4.00.06.66 now allows attaching files to e-mails sent

This is a long time asked feature by our customers, up to now we were only able to send an email once an alarm was triggered but we weren't able to send an email, whenever required, with a list of the alarms triggered so far.

Now thanks to the LUA programming language that is included in our DOP100 series HMI, we are able to send an email with a .csv file that will contain the alarm history on that HMI.

Apart from this, we are also able to send .csv files with the historical data that have been recorded on the HMIs attached to an email; another feature that has been demanded by our customers already for a long time.
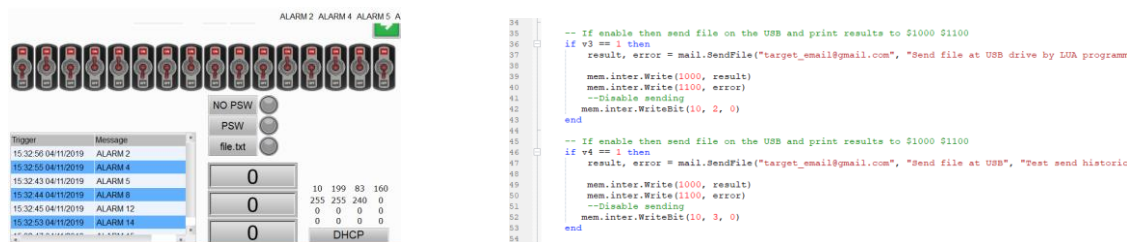
On our ftp-site you will find a sample DOP100 project together with an explanation on how to configure the SMTP server in case customer wants to use Gmail for that purpose.
Folder: Customer-Service\Industrial Automation Products\HMI Human Machine Interface\DOP-100\DOP-100 Application notes

You can download the latest DOPSoft version at:
http://www.deltaww.com/services/DownloadCenter2.aspx?secID=8&pid=2&tid=0&CID=06&itemID=060302&typeID=1&downloadID=DOP-100&title=DOP-100&dataType=8;&check=1&hl=en-US

3   Application

3.1   NEW – Application Notes

New application notes have been published recently on our ftp-site:

- Packaging Industry Notification - Delta A3 Controller Pipe Cutter Solution.pdf

- IoT Industry Notification - Facility Management System Solution.pdf

- Packaging Industry Notification - Napkin Separating Machine Solution.pdf

- Robot Industry Notification - Application of Delta IA Products In Hot Foil Stamping and Embossing Machine.pdf

- Steel Industry Notification - Section Steel Factory Energy Saving.pdf

- Electrotechnical Industry Notification - Winding Machine Control Solution.pdf

4   FAQ

4.1   VFD Series AC Motor Drives

Drives general

Q   In C/CP2000 and MS300: What is the difference between M1042 Quick Stop and M1044 Pause in the PLC?

A   *Quick Stop M1042 = 1: Drive will stop with the shortest possible deceleration ramp.*
M1042 = 0: Drive start enabled. The drive will not restart by itself.

Pause M1044 = 1: The drive will stop with the normal deceleration ramp.
M1044 = 0: The drive will resume the previous operation with the normal acceleration ramp. The user does not need to restart.

ME300

Q   **Is the STO certificate valid when I install the option card EMM-SAF01?**

A   *No. The STO certificate is only valid for ME300 models with pre-installed STO option: VFDxxxMExxAx**S**AA.*

However, the STO functionality is exactly the same when you install EMM-SAF01 later yourself.

CP2000

Q   **What is the compatibility of CP2000 firmware and CMC-EIP01/-MOD01 option cards?**

A   *There is a compatibility issue between newer CMC-EIP01/CMC-MOD01 cards and older CP2000 firmware. When a card with firmware version 1.08 or newer is placed on a CP2000 firmware version 2.03 or older, the card will not get recognized (Pr09-60=0)*

Solution:
Update the CP2000 firmware to the latest version V2.06. The firmware and update instructions are available on the ftp-site.

	CP2000 Firmware version	
CMC-MOD01 CMC-EIP01 Firmware version	V2.03 and older	V2.06
V1.06	OK	OK
V1.08 and newer	NOT OK	OK