

FIRELEC Migration Solution

PROVOX™ > DeltaV™

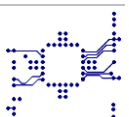
DM Series - Using DIA

Analog Inputs

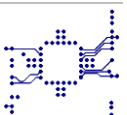


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1. INTRODUCTION



	FIRELEC Migration Solution	Rev :2021_12
	EMERSON PROVOX™ > EMERSON DeltaV™ DM Series - Using DIA	FMS-PVXDM-DV-2-AI

The purpose of this document is to guide the user of a 10 series PROVOX™ system with the safe, efficient and easy way to migrate toward a DeltaV™ system.

FIRELEC has developed an economical migration solution (**FMS-PVXDM-DV-2**) allowing to protect the existing wiring investment as the user convert from an existing PROVOX™ system toward the DeltaV™ system.

The **FMS-PVXDM-DV-2** solution is a set of migration adapters installed in place of the existing I/O cards in the 10 series PROVOX™ files, allowing to migrate easily PROVOX™ I/Os toward a new DeltaV™ system, keeping the I/O wiring in place.

The process I/Os connected with the existing I/O field termination assemblies (FTAs) are kept in place and connected to the migration adapters using the existing front flat cables.

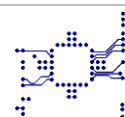
The migration adapters are connected to the DeltaV™ I/O cards using suitable cables provided with each type of migration adapter and DeltaV™ I/O card.

1.1. Key advantages of the FMS-PVXDM-DV-2 solution

FMS-PVXDM-DV-2 solution protects the wiring investment as the user converts from the 10 series PROVOX™ system toward the DeltaV™ system of Emerson Process Management with following advantages :

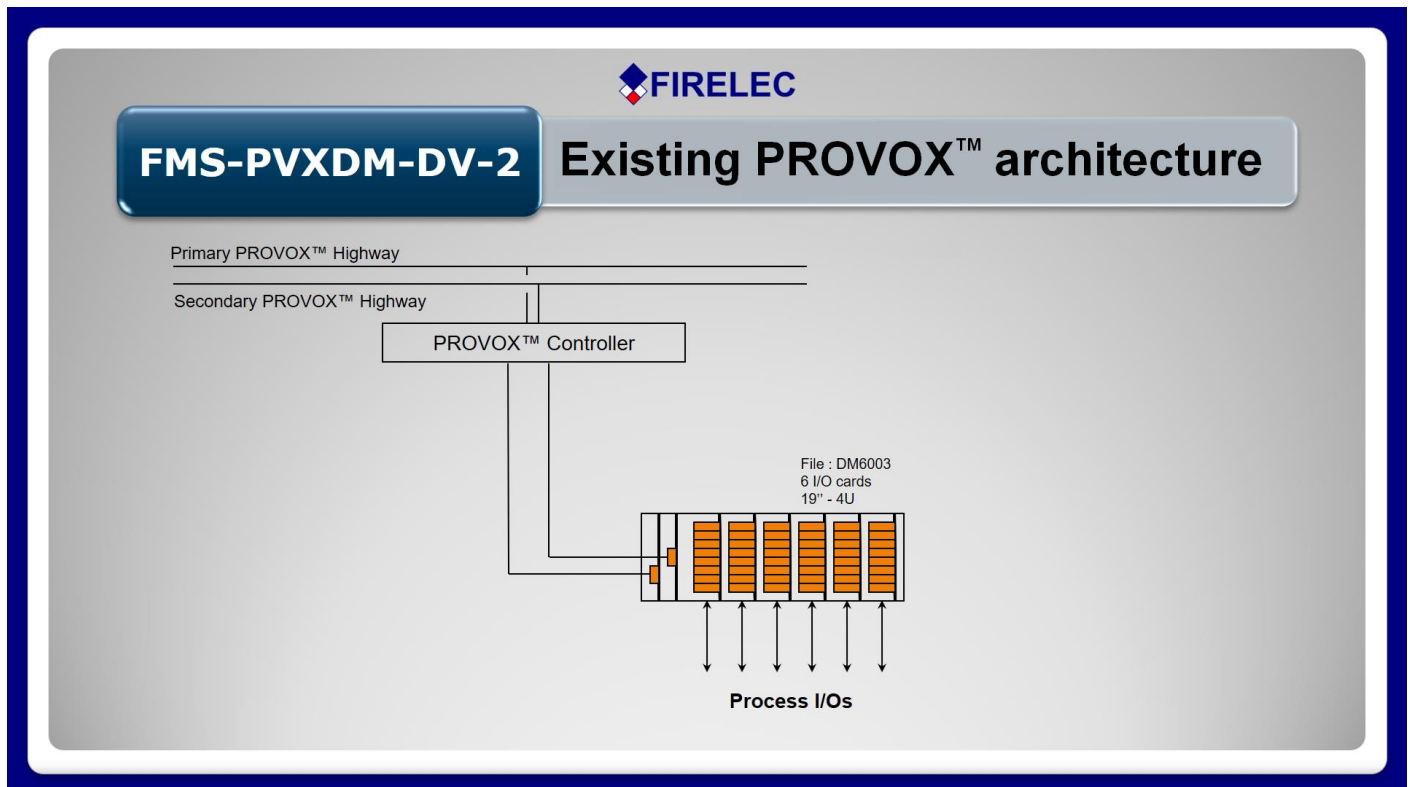
FMS-PVXDM-DV-2 is a pre-engineered solution, ready to work without any technical rework or limitation regarding the existing capabilities of the PROVOX™ system to be migrated.

- As the instrument wiring is not disturbed, the instrument checkout during start-up is reduced to the minimum
- The DeltaV™ system's configuration allows for the engineering conversion to be done efficiently. The speed at which **FMS-PVXDM-DV-2** solution can be implemented ensures to reduce the process downtime to the minimum.
- All existing documentations (electrical and loop drawings, maintenance procedures, ...) remain unchanged as the I/O labelling is strictly the same on new migration adapters than on previous PROVOX™ I/O field termination assemblies removed.

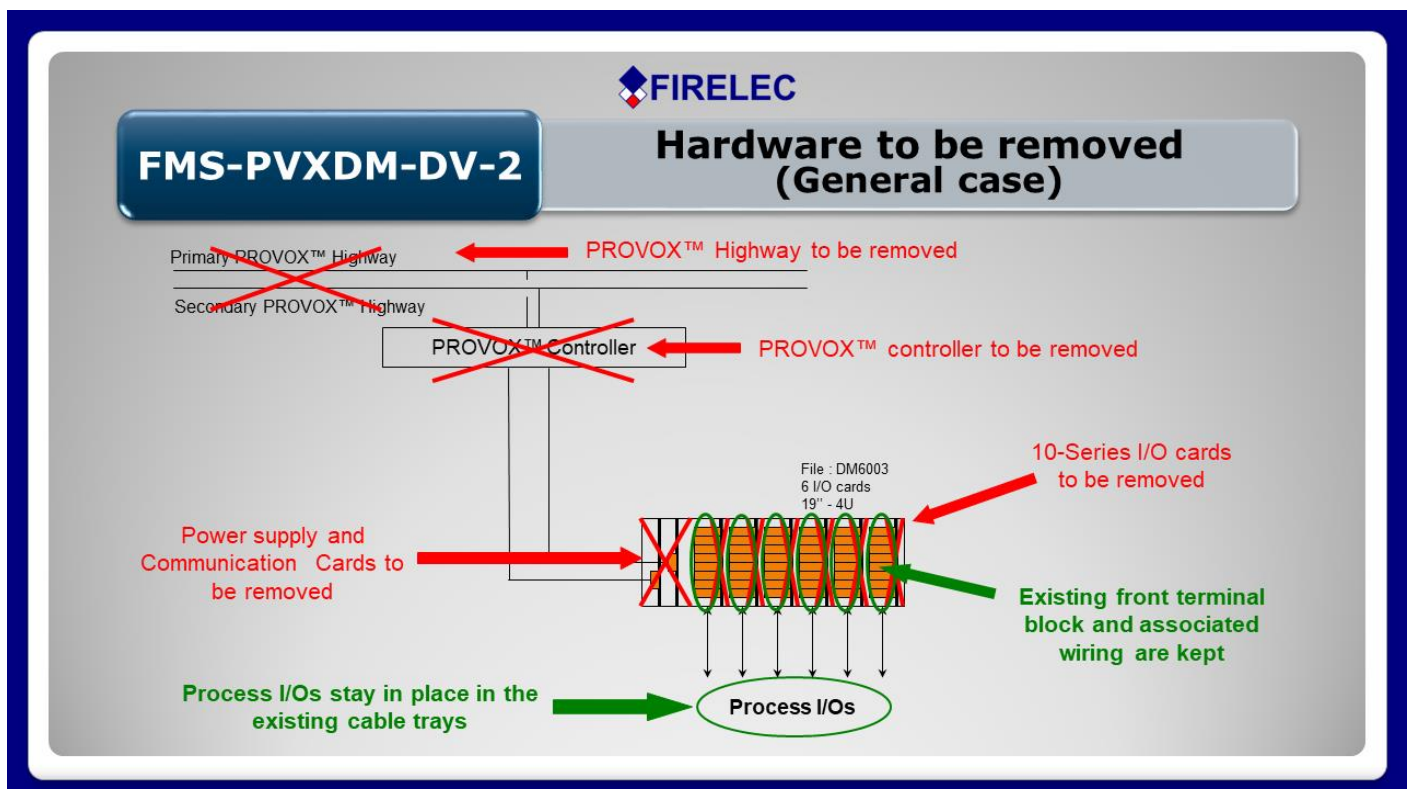


1.2. Description of the FMS-PVXDM-DV-2 solution

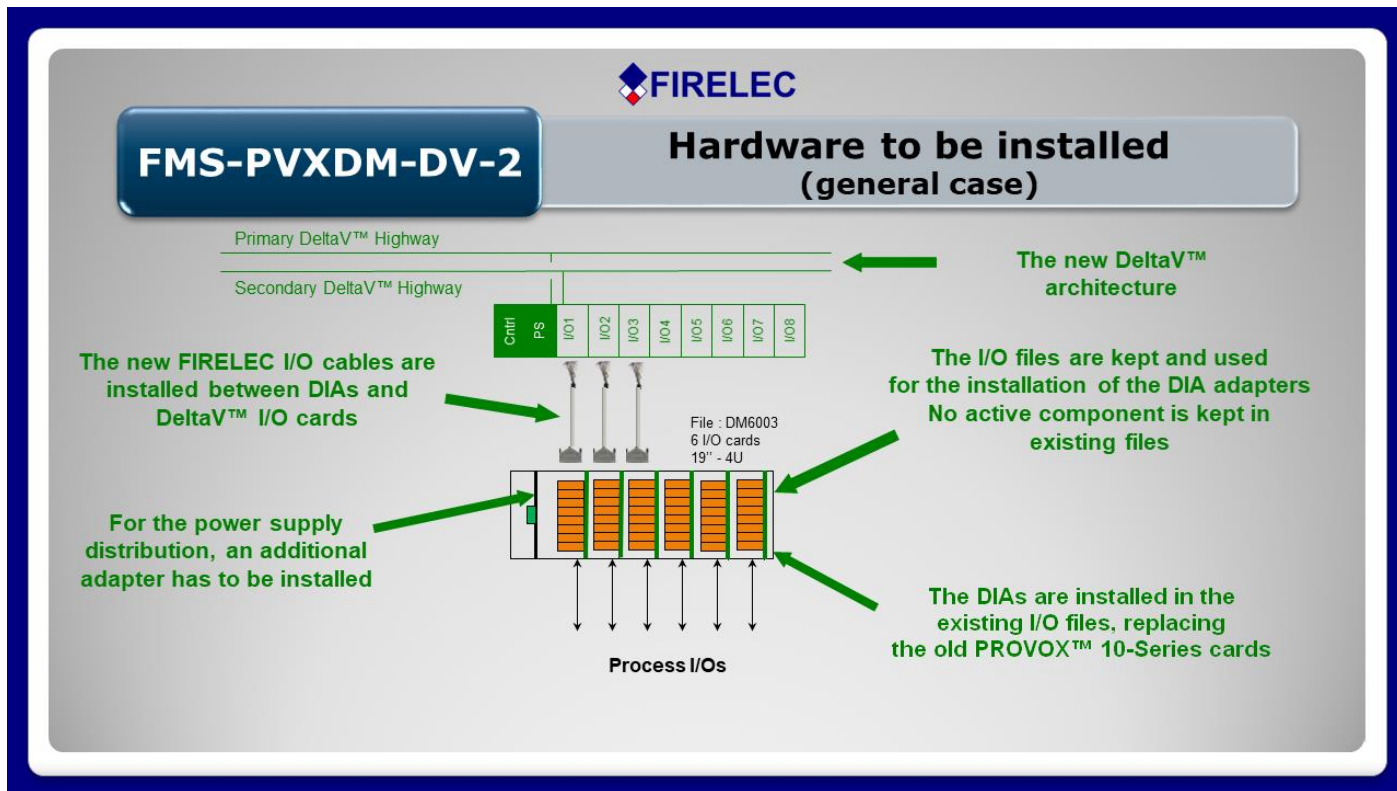
1.2.1. Existing PROVOX™ architecture



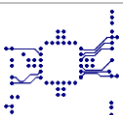
1.2.1. Existing PROVOX™ Hardware to be removed (general case)



1.2.2. New DeltaV™ architecture (general case)

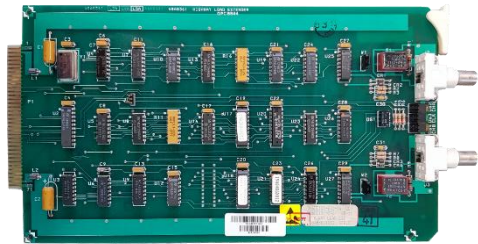


2. POWER SUPPLY



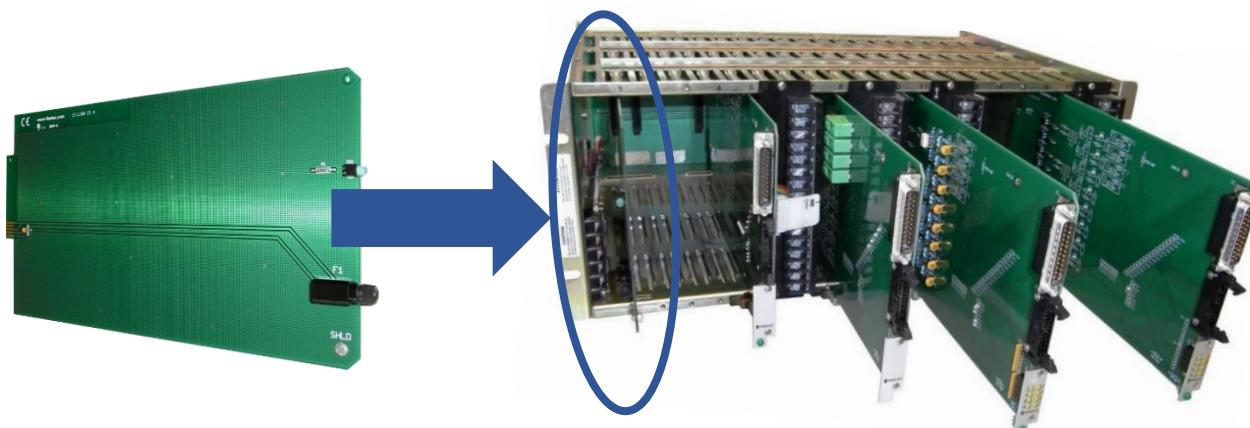
2.1. DM6003X1-GAX (Parallel Buffer) or DH6001X1-GAX (Serial Buffer)

This card ensured previously the power supply of I/O cards of the file and the parallel or serial communication with the I/O driver located in the PROVOX™ controller. Now, this card and its functionalities is not necessary anymore. It is to be replaced by a “bypass” card providing the 24vdc distribution to the migration adapters (DIAs) located in the file.

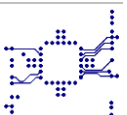
Existing PROVOX™ architecture	
I/O file and communication card	
I/O file	
DM6003	
	
Power distribution and communication Card	
Parallel Buffer DM6003X1-GAX - PN : 31B1834X012 or Serial Buffer DH6001X1-GAX - PN : 38A8362X012	
	



New FIRELEC DIA : DIA-PWS-01-1	
Description	
Power supply distribution adapter (No active component - Only bypass fonctionnality)	



3. ANALOG INPUTS



3.1. DM6311 -A1 and -A2

3.1.1. Description and connection

8 channels - Analog input -A1 : 1-5V ; -A2 : 0-10V

Existing PROVOX™ architecture

I/O file and communication card

I/O file

DM6003



I/O Card

DM6311-A1 and -A2 - PN : 39A6178X012 and 39A6178X022

-A1 : Analog input - 1-5V
-A2 : Analog input - 0-10V



Field Termination Assembly

PN : 36A3885X012

AI Single ended

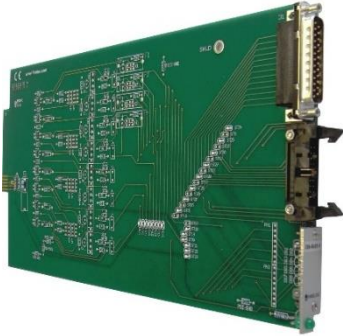
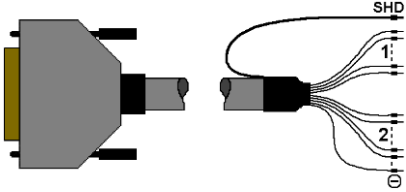


New FIRELEC DIA : DIA-AI-02-1 (8 channels)

Description

8 channels - Analog input adapter - Voltage input

3.1.2. Solution : FMS-PVXDM-DV-2-AI1-A1

New DeltaV™ architecture - FMS-PVXDM-DV-2-AI1-A1		
Interface unit	Cable	DeltaV™ card
DIA-AI-02-1 installed in the existing I/O file type DM6003 and connected to the existing Field Termination Assembly 	CBL-PVXDM-DV-2-AI1-A1 	2 x VE4003S7B1 or 2 x SE4003S7B1 Isolated Input, 4 channels (Thermocouple, mV, V, RTD) 

3.2. DM6312 A1 and -A2

3.2.1. Description and connection

4 channels - Isolated Analog input -A1 : 1-5V ; -A2 : 0-10V

Existing PROVOX™ architecture

I/O file and communication card

I/O file

DM6003



I/O Card

DM6312-A1 and -A2 - PN : 39A8568X012 - 39A8568X022

-A1 : Isolated Analog input - 1-5V
-A2 : Isolated Analog input - 0-10V



Field Termination Assembly

PN : 36A3886X052

AI Isolated

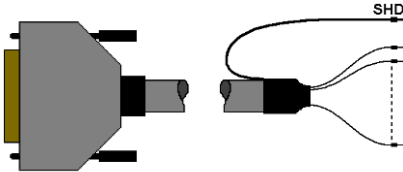


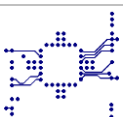
New FIRELEC DIA : DIA-AI-03-1 (4 channels)

Description

4 channels - Analog input adapter for isolated signal

3.2.2. Solution : FMS-PVXDM-DV-2-AI2-A1

New DeltaV™ architecture - FMS-PVXDM-DV-2-AI2-A1		
Interface unit	Cable	DeltaV™ card
DIA-AI-03-1 installed in the existing I/O file type DM6003 and connected to the existing Field Termination Assembly 	CBL-PVXDM-DV-2-AI2-A1 	VE4003S7B1 or SE4003S7B1 Isolated Input, 4 channels (Thermocouple, mV, V, RTD) 



3.3. DM6321 - A1

3.3.1. Description and connection

8 channels - Analog input -A1 : 4-20mA

Existing PROVOX™ architecture	
I/O file and communication card	
I/O file	
DM6003	
	
I/O Card	Field Termination Assembly
DM6321-A1 - PN : 39A6178X012	Option -B1 : Without power supply PN : 36A3885X022 Option -B2 : With transmitter power supply PN : 36A3887X012
-A1 : Analog input - 4-20mA	AI Single ended
	



New FIRELEC DIA : DIA-AI-01-1 (8 channels) for existing PROVOX™ 2 or 4 wire Field Termination Assembly – Option B1 or B2

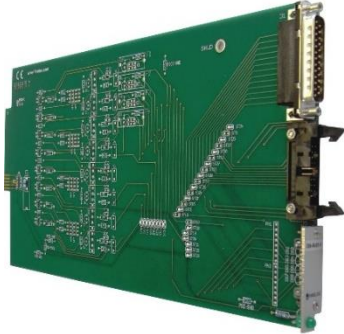
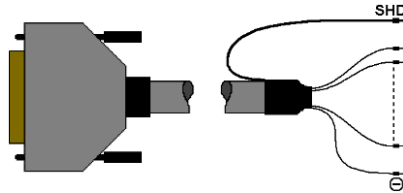
Description

8 channels - Analog input adapter for 2 or 4 wire transmitters

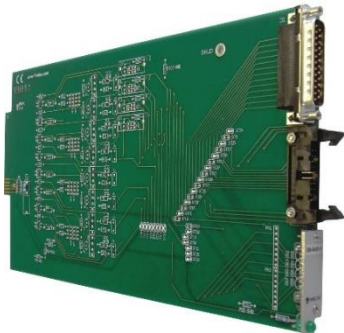
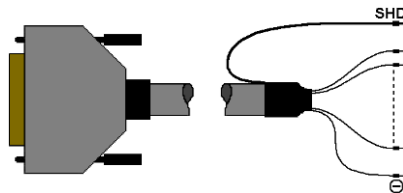
Important remark : *The eight 250 ohm resistors located on the FTA have to be removed (to be easily cutted)*

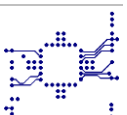


3.3.2. Solution : FMS-PVXDM-DV-2-AI3-A1

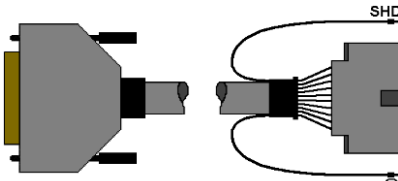
New DeltaV™ architecture - FMS-PVXDM-DV-2-AI3-A1		
Interface unit	Cable	DeltaV™ card
DIA-AI-01-1 (2 or 4 wire) installed in the existing I/O file type DM6003 and connected to the existing Field Termination Assembly 	CBL-PVXDM-DV-2-AI3-A1 	VE4003S2B1 Analog Input card, 8 channels, 4-20 mA, 2 wires, Hart, Terminal block 

3.3.3. Solution : FMS-PVXDM-DV-2-AI3-A2

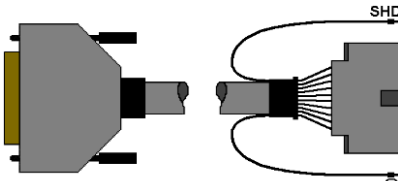
New DeltaV™ architecture - FMS-PVXDM-DV-2-AI3-A2		
Interface unit	Cable	DeltaV™ card
DIA-AI-01-1 (2 or 4 wire) installed in the existing I/O file type DM6003 and connected to the existing Field Termination Assembly 	CBL-PVXDM-DV-2-AI3-A2 	VE4033S2B1 or SE4033S2B1 Analog Input card, 8 channels, 4-20 mA, Redundant, Hart, 2W Terminal block 



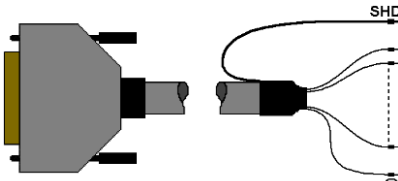
3.3.1. Solution : FMS-PVXDM-DV-2-AI3-A3

New DeltaV™ architecture - FMS-PVXDM-DV-2-AI3-A3		
Interface unit	Cable	DeltaV™ card
DIA-AI-01-1 (2 or 4 wire) installed in the existing I/O file type DM6003 and connected to the existing Field Termination Assembly	CBL-PVXDM-DV-2-AI3-A3	VE4003S2B4 or SE4003S2B4 Analog Input card, 8 channels, 4-20 mA, Hart, 16 pin Mass Termination
		

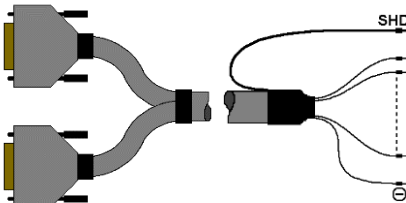
3.3.1. Solution : FMS-PVXDM-DV-2-AI3-A4

New DeltaV™ architecture - FMS-PVXDM-DV-2-AI3-A4		
Interface unit	Cable	DeltaV™ card
DIA-AI-01-1 (2 or 4 wire) installed in the existing I/O file type DM6003 and connected to the existing Field Termination Assembly	CBL-PVXDM-DV-2-AI3-A4	VE4003S2B5 or SE4003S2B5 Analog Input card, 8 channels, 4-20 mA, Hart, 24 pin Mass Termination
		

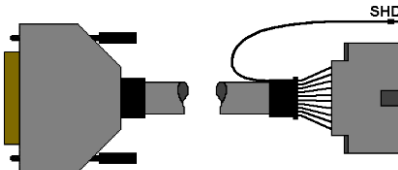
3.3.2. Solution : FMS-PVXDM-DV-2-AI3-A5

New DeltaV™ architecture - FMS-PVXDM-DV-2-AI3-A5		
Interface unit	Cable	DeltaV™ card
DIA-AI-01-1 (2 or 4 wire) installed in the existing I/O file type DM6003 and connected to the existing Field Termination Assembly 	CBL-PVXDM-DV-2-AI3-A5 <u>CH 1 to 8</u> : Cable option A <u>CH 9 to 16</u> : Cable option B 	1/2 x VE4003S2B6 or 1/2 x SE4003S2B6 Analog Input card, 16 channels, 4-20 mA, 2 wires, Terminal block 

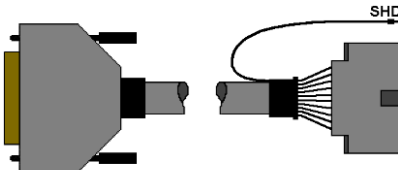
3.3.1. Solution : FMS-PVXDM-DV-2-AI3-A6

New DeltaV™ architecture - FMS-PVXDM-DV-2-AI3-A6		
Interface unit	Cable	DeltaV™ card
DIA-AI-01-1 (2 or 4 wire) installed in the existing I/O file type DM6003 and connected to the existing Field Termination Assembly (existing PROVOX™ cards to be replaced have to be side by side 	CBL-1381 	VE4003S2B6 or SE4003S2B6 Analog Input card, 16 channels, 4-20 mA, 2 wires, Terminal block 

3.3.2. Solution : FMS-PVXDM-DV-2-AI3-A7

New DeltaV™ architecture - FMS-PVXDM-DV-2-AI3-A7		
Interface unit	Cable	DeltaV™ card
DIA-AI-01-1 (2 or 4 wire) installed in the existing I/O file type DM6003 and connected to the existing Field Termination Assembly 	CBL-1314 <u>CH 1 to 8 : J3</u> <u>CH 9 to 16 : J4</u> 	½ VE4003S2B11 ½ SE4003S2B11 Analog Input Plus card, 16 channels, 4-20 mA, Hart, 48 pin Mass Termination 

3.3.1. Solution : FMS-PVXDM-DV-2-AI3-A8

New DeltaV™ architecture - FMS-PVXDM-DV-2-AI3-A8		
Interface unit	Cable	DeltaV™ card
DIA-AI-01-1 (2 or 4 wire) installed in the existing I/O file type DM6003 and connected to the existing Field Termination Assembly 	CBL-1314 <u>CH 1 to 8 : J3</u> <u>CH 9 to 16 : J4</u> 	½ VE4033S2B11 or ½ SE4033S2B11 2 x Analog Input Plus card, 16 channels, 4-20 mA, Hart, Red. 48 pin Mass Termination 



3.4. DM6322

3.4.1. Description and connection

4 channels - Isolated Analog input -A1 : 4-20mA

Existing PROVOX™ architecture

I/O file and communication card

I/O file

DM6003



I/O Card

DM6322-A1 - PN : 39A8568X012

Isolated Analog input - 4-20mA



Field Termination Assembly

PN : 36A3886X062

AI Isolated



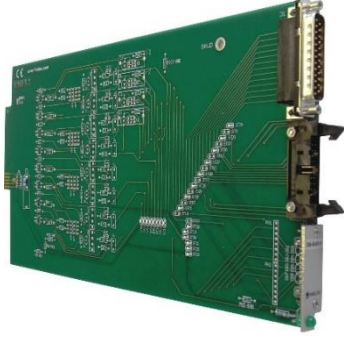
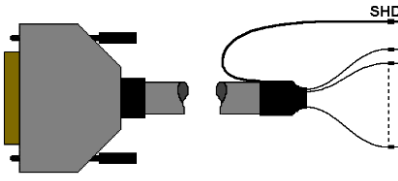
New FIRELEC DIA : DIA-AI-03-1 (4 channels)

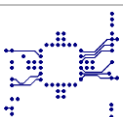
Description

4 channels - Analog input adapter for isolated signals (1-5V)



3.4.2. Solution : FMS-PVXDM-DV-2-AI4-A1

New DeltaV™ architecture - FMS-PVXDM-DV-2-AI4-A1		
Interface unit	Cable	DeltaV™ card
DIA-AI-03-1 installed in the existing I/O file type DM6003 and connected to the existing Field Termination Assembly 	CBL-PVXDM-DV-2-AI4-A1 	VE4003S7B1 or SE4003S7B1 Isolated Input, 4 channels (Thermocouple, mV, V, RTD) 



3.5. **DM6331**

3.5.1. **Description and connection**

4 channels - Isolated RTD Input 3 wires

Existing PROVOX™ architecture

I/O file and communication card

I/O file

DM6003



I/O Card

DM6331-A1 - PN : 39A7234X012
DM6331-A2 - PN : 39A7234X022
DM6331-A4 - PN : 39A7234X042
DM6331-A5 - PN : 39A7234X052
DM6331-A6 - PN : 39A7234X062
DM6331-A7 - PN : 39A7234X032

Field Termination Assembly

PN : 36A3885X032

-A1 : Isolated RTD input -50°F +200°F / -46°C +93°C
-A2 : Isolated RTD input -100°F +500°F / 38°C 260°C
-A4 : Isolated RTD input 0°F +300°F / -18°C 149°C
-A5 : Isolated RTD input -330°F +140°F / -201°C +60°C
-A6 : Isolated RTD input -100°F +600°F / -73°C 316°C
-A7 : Isolated RTD input 0°F +1000°F / -18°C +538°C

AI RTD

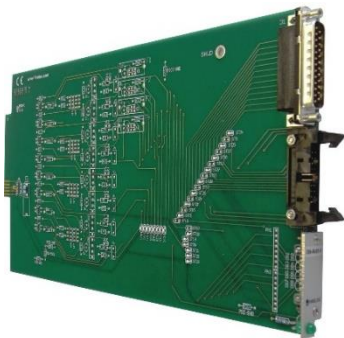
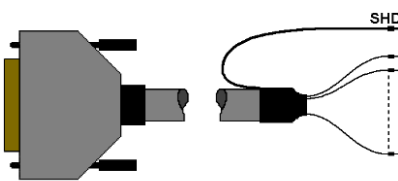


New FIRELEC DIA : DIA-AI-04-1 (4 channels)

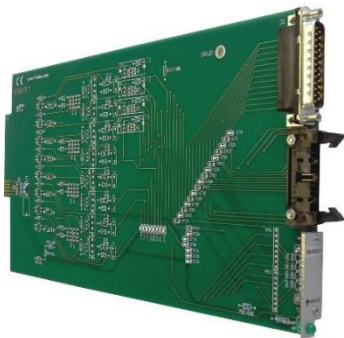
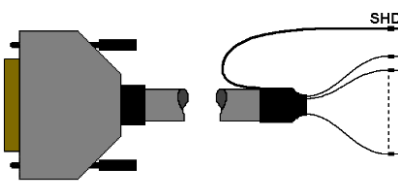
Description

4 channels - Analog input adapter for RTDs

3.5.2. Solution : FMS-PVXDM-DV-2-AI5-A1

New DeltaV™ architecture - FMS-PVXDM-DV-2-AI5-A1		
Interface unit	Cable	DeltaV™ card
DIA-AI-04-1 installed in the existing I/O file type DM6003 and connected to the existing Field Termination Assembly 	CBL-PVXDM-DV-2-AI5-A1 	VE4003S7B1 SE4003S7B1 Isolated Input, 4 channels (Thermocouple, mV, V, RTD) 

3.5.1. Solution : FMS-PVXDM-DV-2-AI5-A2

New DeltaV™ architecture - FMS-PVXDM-DV-2-AI5-A2		
Interface unit	Cable	DeltaV™ card
DIA-AI-04-1 installed in the existing I/O file type DM6003 and connected to the existing Field Termination Assembly 	CBL-PVXDM-DV-2-AI5-A2 <u>CH 1 to 4</u> : Cable option A <u>CH 5 to 8</u> : Cable option B 	½ SE4003S6B1 RTD Input, 8 channels RTD Terminal Block 



3.6. DM6341

3.6.1. Description and connection

4 channels - Isolated mV Input / -10mV to 70mV

Existing PROVOX™ architecture

I/O file and communication card

I/O file

DM6003



I/O Card

DM6341-A1 - PN : 39A8567X012

Isolated mV Input / -10mV to 70mV



Field Termination Assembly

PN : 36A3886X132

AI Isolated mV



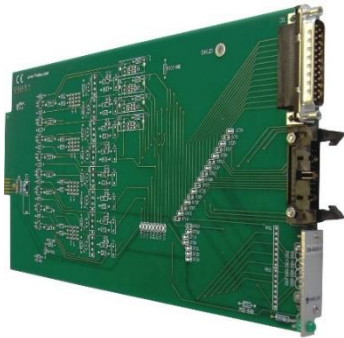
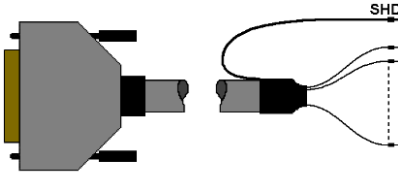
New FIRELEC DIA : DIA-AI-03-1 (4 channels)

Description

4 channels - Analog input adapter for mV inputs



3.6.2. Solution : FMS-PVXDM-DV-2-AI6-A1

New DeltaV™ architecture - FMS-PVXDM-DV-2-AI6-A1		
Interface unit	Cable	DeltaV™ card
DIA-AI-03-1 installed in the existing I/O file type DM6003 and connected to the existing Field Termination Assembly 	CBL-PVXDM-DV-2-AI6-A1 	VE4003S7B1 SE4003S7B1 Isolated Input, 4 channels (Thermocouple, mV, V, RTD) 



3.7. DM6351 DM6352 DM6353 DM6354 DM6355

3.7.1. Description and connection

4 channels - Isolated Thermocouple Type J, K, T, E, R

Existing PROVOX™ architecture

I/O file and communication card

I/O file

DM6003



I/O Card

Field Termination Assembly

DM6351-A1 -A2 (TC J) - PN : 39A8567X022 and X032
DM6352-A1 -A2 (TC K) - PN : 39A8567X042 and X052
DM6353-A1 (TC T) - PN : 39A8567X062
DM6354-A1 (TC E) - PN : 39A8567X072
DM6355-A1 (TC R) - PN : 39A8567X082

PN : 36A3886X012
PN : 36A3886X022
PN : 36A3886X032
PN : 36A3886X042
PN : 36A3886X112

DM6351-A1 : 0°F +1400°F / -18°C +760°C
DM6351-A2 : -60°F +640°F / -51°C +338°C
DM6352-A1 : 0°F +2300°F / -18°C +1260°C
DM6352-A2 : 0°F +1000°F / -18°C +538°C
DM6353-A1 : -300°F +600°F / -185°C +316°C
DM6354-A1 : -100°F +1600°F / -73°C +871°C
DM6355-A1 : 0°F +3200°F / -18°C +1760°C

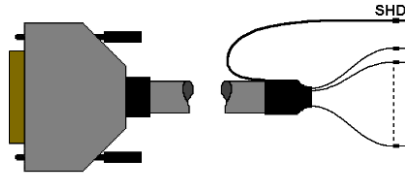


New FIRELEC DIA : DIA-AI-05-1 (4 channels)

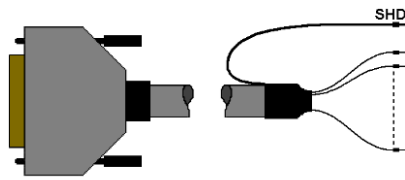
Description

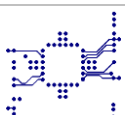
4 channels - Analog input adapter for Tc

3.7.2. Solution : FMS-PVXDM-DV-2-AI7-A1

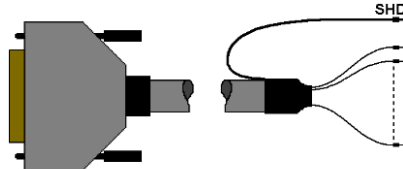
New DeltaV™ architecture - FMS-PVXDM-DV-2-AI7-A1		
Interface unit	Cable	DeltaV™ card
DIA-AI-05-1 installed in the existing I/O file type DM6003 	(TC J) compensation cable (four shielded twisted pairs) CBL-PVXDM-DV-2-AI7-A1 	VE4003S7B1 SE4003S7B1 Isolated Input, 4 channels (Thermocouple, mV, V, RTD) 

3.7.1. Solution : FMS-PVXDM-DV-2-AI7-A2

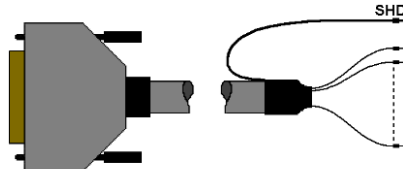
New DeltaV™ architecture - FMS-PVXDM-DV-2-AI7-A2		
Interface unit	Cable	DeltaV™ card
DIA-AI-05-1 installed in the existing I/O file type DM6003 	(TC K) compensation cable (four shielded twisted pairs) CBL-PVXDM-DV-2-AI7-A2 	VE4003S7B1 SE4003S7B1 Isolated Input, 4 channels (Thermocouple, mV, V, RTD) 

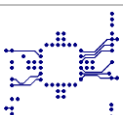


3.7.1. Solution : FMS-PVXDM-DV-2-AI7-A3

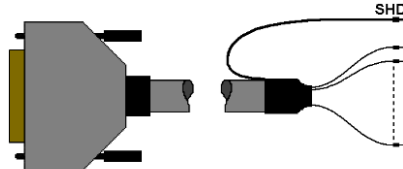
New DeltaV™ architecture - FMS-PVXDM-DV-2-AI7-A3		
Interface unit	Cable	DeltaV™ card
DIA-AI-05-1 installed in the existing I/O file type DM6003 	(TC T) compensation cable (four shielded twisted pairs) CBL-PVXDM-DV-2-AI7-A3 	VE4003S7B1 SE4003S7B1 Isolated Input, 4 channels (Thermocouple, mV, V, RTD) 

3.7.1. Solution : FMS-PVXDM-DV-2-AI7-A4

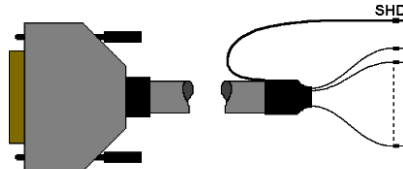
New DeltaV™ architecture - FMS-PVXDM-DV-2-AI7-A4		
Interface unit	Cable	DeltaV™ card
DIA-AI-05-1 installed in the existing I/O file type DM6003 	(TC E) compensation cable (four shielded twisted pairs) CBL-PVXDM-DV-2-AI7-A4 	VE4003S7B1 SE4003S7B1 Isolated Input, 4 channels (Thermocouple, mV, V, RTD) 

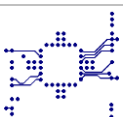


3.7.1. Solution : FMS-PVXDM-DV-2-AI7-A5

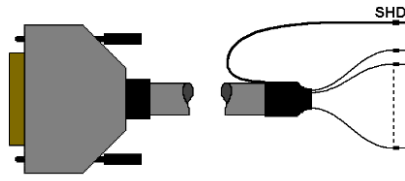
New DeltaV™ architecture - FMS-PVXDM-DV-2-AI7-A5		
Interface unit	Cable	DeltaV™ card
DIA-AI-05-1 installed in the existing I/O file type DM6003 	(TC R) compensation cable (four shielded twisted pairs) CBL-PVXDM-DV-2-AI7-A5 	VE4003S7B1 SE4003S7B1 Isolated Input, 4 channels (Thermocouple, mV, V, RTD) 

3.7.1. Solution : FMS-PVXDM-DV-2-AI7-A6

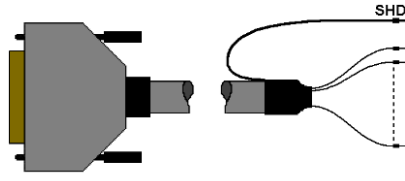
New DeltaV™ architecture - FMS-PVXDM-DV-2-AI7-A6		
Interface unit	Cable	DeltaV™ card
DIA-AI-05-1 installed in the existing I/O file type DM6003 	(TC J) compensation cable (four shielded twisted pairs) CBL-PVXDM-DV-2-AI7-A6 <u>CH 1 to 4</u> : Cable option A <u>CH 5 to 8</u> : Cable option B 	$\frac{1}{2}$ VE4003S5B1 or $\frac{1}{2}$ SE4003S5B1 Thermocouple Card: 8 Channels Thermocouple Terminal Block 

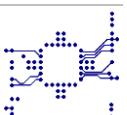


3.7.1. Solution : FMS-PVXDM-DV-2-AI7-A7

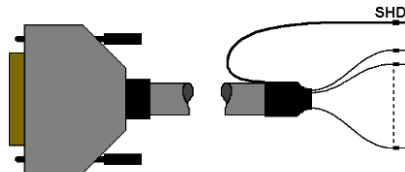
New DeltaV™ architecture - FMS-PVXDM-DV-2-AI7-A7		
Interface unit	Cable	DeltaV™ card
DIA-AI-05-1 installed in the existing I/O file type DM6003 	(TC K) compensation cable (four shielded twisted pairs) CBL-PVXDM-DV-2-AI7-A7 <u>CH 1 to 4</u> : Cable option A <u>CH 5 to 8</u> : Cable option B 	½ VE4003S5B1 or ½ SE4003S5B1 Thermocouple Card: 8 Channels Thermocouple Terminal Block 

3.7.1. Solution : FMS-PVXDM-DV-2-AI7-A8

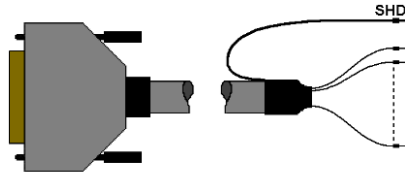
New DeltaV™ architecture - FMS-PVXDM-DV-2-AI7-A8		
Interface unit	Cable	DeltaV™ card
DIA-AI-05-1 installed in the existing I/O file type DM6003 	(TC T) compensation cable (four shielded twisted pairs) CBL-PVXDM-DV-2-AI7-A8 <u>CH 1 to 4</u> : Cable option A <u>CH 5 to 8</u> : Cable option B 	½ VE4003S5B1 or ½ SE4003S5B1 Thermocouple Card: 8 Channels Thermocouple Terminal Block 



3.7.1. Solution : FMS-PVXDM-DV-2-AI7-A9

New DeltaV™ architecture - FMS-PVXDM-DV-2-AI7-A9		
Interface unit	Cable	DeltaV™ card
DIA-AI-05-1 installed in the existing I/O file type DM6003 	(TC E) compensation cable (four shielded twisted pairs) CBL-PVXDM-DV-2-AI7-A9 <u>CH 1 to 4</u> : Cable option A <u>CH 5 to 8</u> : Cable option B 	½ VE4003S5B1 or ½ SE4003S5B1 Thermocouple Card: 8 Channels Thermocouple Terminal Block 

3.7.1. Solution : FMS-PVXDM-DV-2-AI7-A10

New DeltaV™ architecture - FMS-PVXDM-DV-2-AI7-A10		
Interface unit	Cable	DeltaV™ card
DIA-AI-05-1 installed in the existing I/O file type DM6003 	(TC R) compensation cable (four shielded twisted pairs) CBL-PVXDM-DV-2-AI7-A10 <u>CH 1 to 4</u> : Cable option A <u>CH 5 to 8</u> : Cable option B 	½ VE4003S5B1 or ½ SE4003S5B1 Thermocouple Card: 8 Channels Thermocouple Terminal Block 

