Rev: 2019\_03

### FIRELEC Migration Solution

Alspa CE2000™ > Ovation™

AIA (Alspa Interface Adapters)

FMS-CE2000-OV-1

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# 1. INTRODUCTION







### FIRELEC Migration Solution Rev :2019\_03

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FMS-CE2000-OV-1

The purpose of this document is to guide the user of an ALSTOM Alspa CE2000<sup>TM</sup> system within the safe, efficient and easy way to migrate toward an EMERSON Ovation<sup>TM</sup> system.

**FIRELEC** has developed migration solution "**FMS-CE2000-OV-1**" allowing to protect the existing wiring investment as the user converts from an existing Alspa CE2000 system to the Ovation™ system.

The **FMS-CE2000-OV-1** solution is a set of migration adapters installed in place of the existing I/O cards into the I/O files, allowing to connect easily existing Alspa CE2000 cables, to the Ovation I/O cards.

The Alspa CE2000 RA150 modules are kept in place. The DIN F-Type connectors of this modules are then, through the AIA, connected to the Ovation I/O cards using dedicated shielded cables with SUBD connectors at one end and numbered wires or suitable connectors (matching with the type of I/O block of the Ovation card) at the other end.

#### 1.1. KEY ADVANTAGES OF THE FMS-CE2000-OV-1 SOLUTION

**FMS-CE2000-OV-1** solution protect your wiring investment as you convert from the Alspa CE2000<sup>™</sup> system to the Ovation<sup>™</sup> system of Emerson Process Management with following advantages :

**FMS-CE2000-OV-1** is a pre-engineered marshalling solution ready to work without any technical rework or limitation regarding the existing capabilities of the Alspa CE2000 system to be migrated.

As the instrument wiring is not disturbed, the instrument checkout during startup is reduced to the minimum

The Ovation<sup>™</sup> system's configuration allows for the engineering conversion to be done efficiently. The speed at which **FMS-CE2000-OV-1** solution can be implemented ensures to reduce the process downtime to the minimum.

All existing documentations (electrical schemes, loop drawings, maintenance procedures, .....) remain unchanged as the existing I/O panels are kept in place.





## 2. ANALOG INPUTS



#### 2.1. EXISTING CARD TO BE REMOVED: HIGH LEVEL ANALOG INPUT MODULE AH 115

New EMERSON Ovation architecture - FMS-CE2000-OV-1-Al1-A1						
Process Connection	Adapter	Cable	I/O Card			
RA150 Module	AIA-AI-1	Cable CBL-1035	Emod : 5X00106G02 Pmod : 5X00109G01			
	Adapter installed in existing CE2000 card file	Detail of the cable See cable section on www.firelec.com	Analog Input HART High Performance, 8 channels, 4-20mA, Local or Remote Power Supply Screw terminals			
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## 3. ANALOG OUTPUTS



FMS-CE2000-OV-1

#### 3.1. EXISTING CARD TO BE REMOVED: AO

New EMERSON Ovation architecture - FMS-CE2000-OV-1-AO1-A1						
Process Connection	Adapter	Cable	I/O Card			
RA150 Module	AIA-AO-1	Cable CBL-1036	2 X Emod : 5X00167G01 2 X Pmod : 5X00188H01			
	Adapter installed in existing CE2000 card file	Detail of the cable See cable section on www.firelec.com	Analog Output HART High Performance 16 Bit, 4 channels, 4-20mA, Local or Remote Power Supply, Screw terminals			
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# 4. DISCRETE INPUTS





### FIRELEC Migration Solution

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#### 4.1. : EXISTING CARD TO BE REMOVED : DI

	New EMERSON Ovation architecture - FMS-CE2000-OV-1-DI1-A1						
Process Connection		Adapter Cable		I/O Card			
	RA150 Module	AIA-DI-1	Cable CBL-1037	Emod : 1C31233G04 Pmod : 1C31238H01			
		Adapter installed in existing CE2000 card file	Detail of the cable See cable section on www.firelec.com	Sequence of Events Compact, 16 channels, 48 VDC single-ended current- sourcing digital inputs (contact inputs) using on-card power supply (FCI field card)			
		Annual An	SHD				





## 5. **DISCRETE OUTPUTS**



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#### 5.1. EXISTING CARD TO BE REMOVED: LC105

New EMERSON Ovation architecture - FMS-CE2000-OV-1-DO1-A1					
Process Connection	Adapter	Cable	Interface	Cable	I/O Card
2 X RA150 Module	2 X AIA-DO-1	Cable CBL-1038A Cable CBL-1038B	INT-DO32-R-F-1	2 X Cable CBL-1023	2 X Emod : 1C31122G01 2 X Pmod : 1C31125G02
	Adapter installed in existing CE2000 card file	Detail of the cable See cable section on www.firelec.com	32 channels - Discrete Outputs with fuses and electromechanical or solid state relays	Detail of the cable See cable section on www.firelec.com	Digital Output, 5-60Vdc, 16 channels, relay panel, Local Power Supply
		SHD			
		SHD			





#### 5.2. EXISTING CARD TO BE REMOVED: LC106

New EMERSON Ovation architecture - FMS-CE2000-OV-1-DO2-A1					
Process Connection	Adapter	Cable	Interface	Cable	I/O Card
2 X RA150 Module	2 X AIA-DO-2	Cable CBL-1038A Cable CBL-1038B	INT-DO32-R-F-1	2 X Cable CBL-1023	2 X Emod : 1C31122G01 2 X Pmod : 1C31125G02
	Adapter installed in existing CE2000 card file	Detail of the cable See cable section on www.firelec.com	32 channels - Discrete Outputs with fuses and electromechanical or solid state relays	Detail of the cable See cable section on www.firelec.com	Digital Output, 5-60Vdc, 16 channels, relay panel, Local Power Supply
	Acces 1	SHD			
		SHD			



