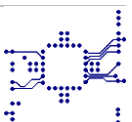


FIRELEC Migration Solution

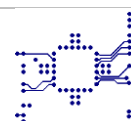
Alspa C350 C370™ > SIEMENS S7™

FMS-C350_C370-S7-1

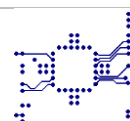


Contents

1. INTRODUCTION	3
1.1. KEY ADVANTAGES OF THE FMS-C350_C370-S7-1 SOLUTION.....	4
2. ANALOG INPUTS.....	5
2.1. EXISTING MODULE TO BE REMOVED S202 :	6
3. DISCRETE INPUTS	7
3.1. EXISTING MODULE TO BE REMOVED S101 :	8
4. DISCRETE OUTPUTS	9
4.1. EXISTING MODULE TO BE REMOVED S151 :	10



1. INTRODUCTION



The purpose of this document is to guide the user of ALSPA C350™ system within the safe, efficient and easy way to migrate toward a SIEMENS S7™ system

FIRELEC has developed migration solution "**FMS-C350_C370-S7-1**" allowing to protect the existing wiring investment as the user converts from an existing ALSPA C350™ system to the SIEMENS S7™ system.

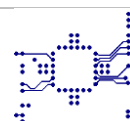
The **FMS-C350_C370-S7-1** solution is a set of migration adapters installed in place of the existing I/O cards, allowing to connect easily existing Alspa C350™ I/O cables, to the SIEMENS S7™ I/O cards.

The Alspa C350™ process cables are kept in place. The DIN E-Type connectors of this cables are then, through the ADP-S, connected to the SIEMENS S7™ 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 SIEMENS S7™ card) at the other end.

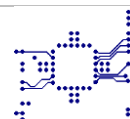
1.1. KEY ADVANTAGES OF THE FMS-C350_C370-S7-1 SOLUTION

FMS-C350_C370-S7-1 solution protect your wiring investment as you convert from the ALSPA C350™ system to the SIEMENS S7™ system with following advantages :

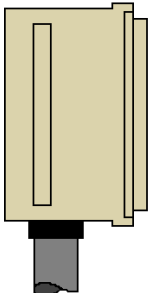
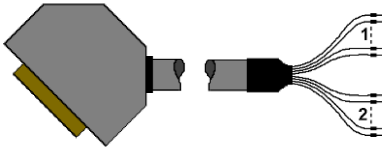
- **FMS-C350_C370-S7-1** is a pre-engineered marshalling solution ready to work without any technical rework or limitation regarding the existing capabilities of the Alspa C350™ system to be migrated.
- As the instrument wiring is not disturbed, the instrument checkout during startup is reduced to the minimum
- The SIEMENS S7™ system's configuration allows for the engineering conversion to be done efficiently. The speed at which **FMS-C350_C370-S7-1** 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 process connections are kept in place.

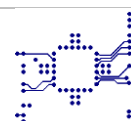


2. ANALOG INPUTS

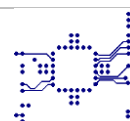


2.1. EXISTING MODULE TO BE REMOVED S202 :

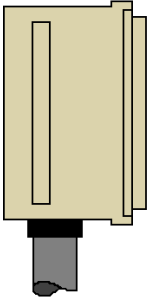
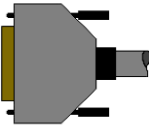
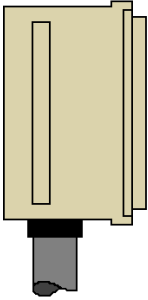
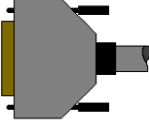
New SIEMENS S7 architecture - FMS-C350_C370-S7-1-A1-A1			
Process Connection	Adapter	Cable	I/O Card
S201 Cable Existing Cable (DIN E-Type connector)	ADP-S201 15 channels Isolated Analog Inputs	CBL-1127 Detail of the cable See cable section on www.firelec.com	2 x 6ES7331-7KF02-0AB0 Analog Input SM 331, 8AI, Optically Isolated, 20 Pin
			

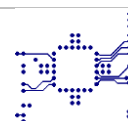


3. DISCRETE INPUTS

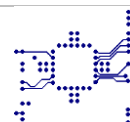


3.1. EXISTING MODULE TO BE REMOVED S101 :

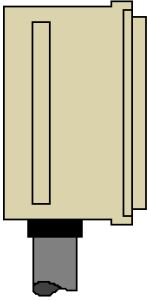
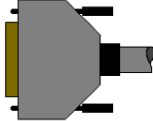
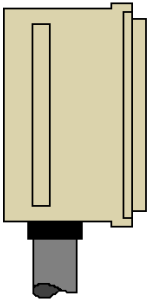
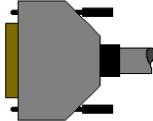
New SIEMENS S7 architecture - FMS-C350_C370-S7-1-DI1-A1			
Process Connection	Adapter	Cable	I/O Card
S101 Cable Existing Cable (DIN E-Type connector)	ADP-S101 16 channels Discrete Inputs	CBL-1125A Detail of the cable See cable section on www.firelec.com	6ES7321-1BL00-0AA0 Digital Input SM 321, 32DI, Optically Isolated, 24 V DC, 40 Pin
		 Plugged on A	
S101 Cable Existing Cable (DIN E-Type connector)	ADP-S101 16 channels Discrete Inputs	CBL-1125B Detail of the cable See cable section on www.firelec.com	
		 Plugged on B	



4. DISCRETE OUTPUTS



4.1. EXISTING MODULE TO BE REMOVED S151 :

New SIEMENS S7 architecture - FMS-C350_C370-S7-1-DO1-A1			
Process Connection	Adapter	Cable	I/O Card
S151 Cable Existing Cable (DIN E-Type connector)	ADP-S151 16 channels Digital Outputs with electromechanical relays	CBL-1126A Detail of the cable See cable section on www.firelec.com	6ES7322-1BL00-0AA0 Digital Output SM 322, 32DO, 24 V DC, 0.5A 40 Pin
		 Plugged on A	
S151 Cable Existing Cable (DIN E-Type connector)	ADP-S151 16 channels Digital Outputs with electromechanical relays	CBL-1126B Detail of the cable See cable section on www.firelec.com	
		 Plugged on B	

