

Migration from DC16 to DC1090

1. Scope

This document describes the migration of systems using an electronic cam switch controller of the DC16 series to the DC1090 system.

2. Requirements

The following requirements must be met to ensure a successful migration.

2.1 Documentation and Software

- Current electrical schematic of the control cabinet including the terminal assignment of the DC16 and all extension modules
- DC16 manual
- DC1090 manual
- DigiSoft software installed on a PC

2.2 Documentation and Downloads

DC16 Manual:

[DC16 Manual](#)

DigiSoft Manual:

[DigiSoft Manual](#)

DigiSoft Software:

[DigiSoft Software Download](#)

DC1090 Manual:

[DC1090 Manual](#)

Additional Product Information:

[Sepodi Product Overview](#)

2.3 Technical Requirements

- Experience working with DC16 series cam switch controllers
 - Knowledge of parameter configuration for the DC16 series
 - In-depth knowledge of the affected machine or system
 - Sufficient space in the control cabinet for the DC1090 (different form factor must be considered)
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2.4 Hardware and Data

- DC16 with RS232 or RS485 interface
 - Alternatively, an existing backup file (e.g. *Transfer.dc3*)
 - DC16 service password
 - DC1090 in the appropriate hardware configuration
 - Internet access for additional information
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3. Planning

Careful planning is required before starting the actual migration.

- Creation of a new wiring diagram based on the DC1090
- Retaining the existing input and output sequence whenever possible
- Maintaining the connection order of extension modules

Note

The DC1090 provides a higher number of inputs and outputs. In many cases, a DC1090 can completely replace a DC16 including the DC16IO extension module. This should already be considered during the planning phase.

If the original output sequence cannot be maintained, the configuration must be adjusted after commissioning using the internal I/O router of the DC1090.

4. Backup

A backup file is required to transfer the existing parameters (e.g. *Transfer.dc3*).

4.1 Compatibility

Parameter files are compatible within the DC series.

4.2 Reading the Data

Data is read using the DigiSoft software.

RS232 Devices (DC16 ~~~~2~)

- Connection via USB-to-RS232 adapter

RS485 Devices (DC16 ~~~~4~)

- Connection via USB-to-RS485 adapter
- Alternatively, in case of connection issues: D COMUCA/USB

4.3 Backup Procedure

- Read parameters from the DC16
 - Save the backup file locally
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5. Migration

The migration is carried out in the following steps:

1. Remove the DC16
 2. Install the DC1090 according to the new wiring diagram
 3. Transfer the backup file (e.g. *Transfer.dc3*) to the DC1090
 4. Verify the hardware configuration of the DC1090
 5. Adjust the inputs and outputs if required using:
 - internal parameters
 - the DC1090 I/O router
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6. Commissioning and Testing

After the migration, a complete functional test of the system must be carried out.

Special attention should be paid to:

- correct signal assignment
 - switching timing behavior
 - correct input/output logic
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7. Completion

After successful testing, the following steps should be completed:

- Create a complete backup of the DC1090
- Document the final configuration