# ControlMaster controllers and indicators
# PC configuration backup tool
# Upload / download procedures

## Measurement made easy



## 1 Introduction

A ControlMaster's configuration (both controllers and indicators) can be backed up to a PC and restored to a device using the ControlMaster PC configuration backup tool.

The PC configuration backup tool is a utility used in conjunction with a USB Irda adaptor and can be downloaded from www.abb.com/recorders.

## 2 Items required

### 2.1 PC configuration backup tool kit

| Description | Part no. |
| --- | --- |
| USB Irda adaptor | B12895 |
| Information sheet | INF14/162-EN |

Table 2.1 PC configuration backup tool CM30/0714

## 3 Firmware revision

The following firmware revisions are compatible with the upload/download tool:

| Instrument | Firmware revision | |
| --- | --- | --- |
| CM15 | CM15|P5|00|02|22<br>CM15|P5|01|02|22 | or later |
| CM10 | CM10|P5|00|02|22<br>CM10|P5|01|02|22 | or later |
| CM30 | CM30|P5|00|02|22 | or later |
| CM50 | CM50|P5|00|02|22 | or later |
| CMF160 | CMF160|P5|00|02|22 | or later |
| CMF310 | CMF310|P5|00|02|22 | or later |

Table 3.1 Instrument firmware revision

i **IMPORTANT (NOTE)** If using an earlier firmware revision, contact your local ABB representative for more information.

Power and productivity
for a better world™

ABB

# 4 PC configuration backup tool installation

1. Copy the PC configuration backup tool installation file to a local drive, unzip it (if necessary) and run 'Setup.exe'.
2. Follow the on-screen instructions to complete installation.

## 4.1 USB Irda adaptor driver installation

The driver for the USB Irda adaptor should install automatically when the adaptor is connected to a PC. If it does not install, follow the manufacturer's instructions supplied with the adaptor.

### 4.1.1 ControlMaster Irda port location

Fig. 4.1 shows the location of each ControlMaster's Irda port and the recommended distance between the adaptor and instrument.

1. Connect the USB Irda adaptor to a PC and align it with the Irda port on the front of the ControlMaster.
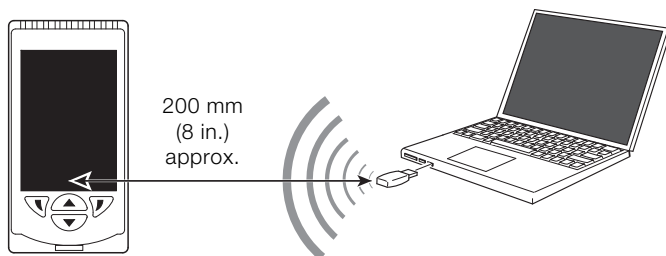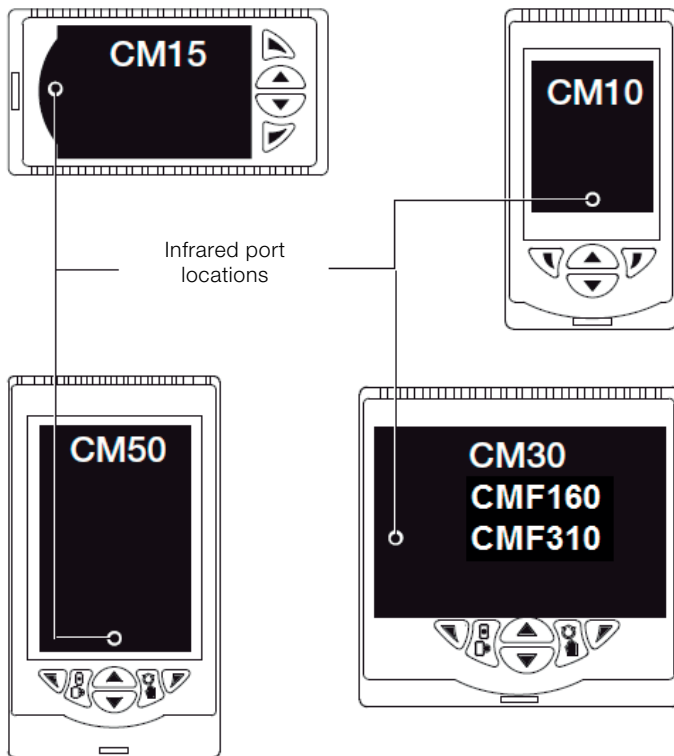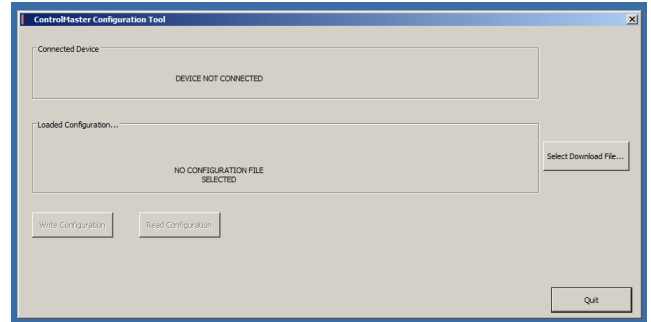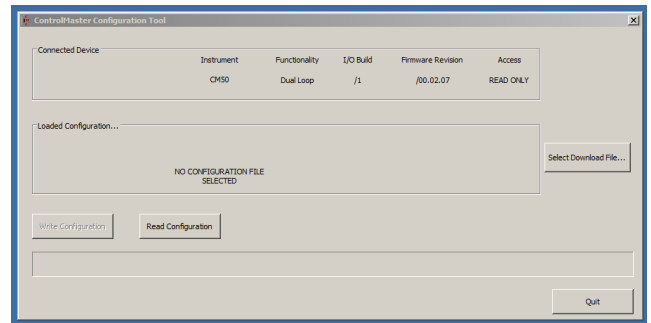


# 5 Backing up (downloading) a configuration

1. Plug the USB Irda Adaptor into the PC and run the ControlMaster PC configuration backup tool.
   The *ControlMaster Configuration Tool* window is displayed:



2. At the controller / indicator, press either the left hand or right hand key to display the *Access Level* page.
3. Select *Advanced* (enter any passwords required).
4. Select the *Device Setup* page.
5. Use the up / down keys to select *IrDA configuration*.
6. Select *Config. Description* to enter a name / ID for the configuration file (if required) – this is a unique identifier saved as part of the configuration file only.
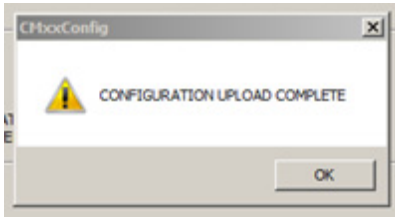7. Select *Connect*.
   Align the USB Irda Adaptor with the Irda port on the ControlMaster to establish a connection – see Fig. 4.1. When a connection is established the *Connected Device* group box is populated (as shown below):



8. Select the *Read configuration* button.

Fig. 4.1 Irda port location on ControlMaster instruments

9.  You are prompted to enter a file name and to select a save location for the configuration file.
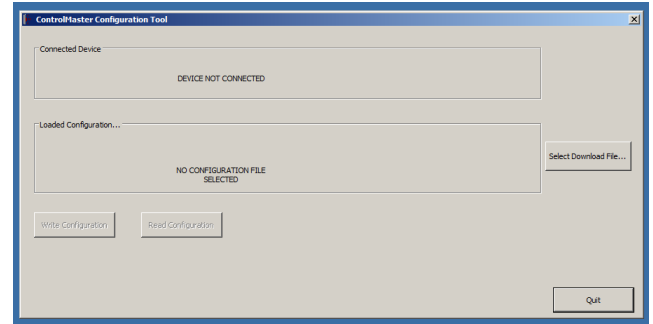    The configuration is now read from the instrument.
    A progress bar at the bottom of the dialog indicates progress (approximate time is 10 seconds).
    The following prompt is displayed if the transfer is successful:



10. If the transfer is not successful, attempt to read the configuration again and proceed to step 12.
11. If the problem persists:
    a. confirm the Irda connection is active by checking the ControlMaster and application status messages
    b. ensure a clear line-of-sight between the USB Irda adaptor and the ControlMaster
    If both conditions are met, return to step 7.

12. Exit the *ControlMaster Configuration Tool*.
13. Press *Exit* on the ControlMaster's *IrDA configuration* page.
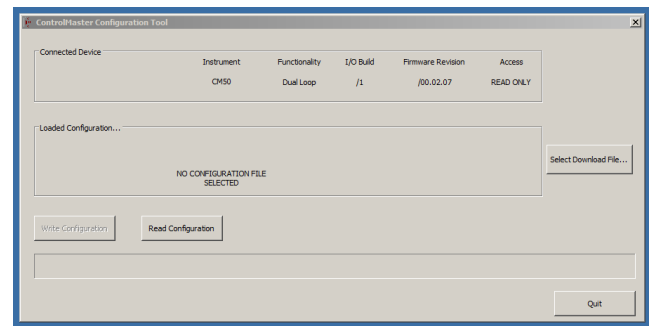14. The ControlMaster will restart.

# 6 Restoring (uploading) a configuration

1.  Plug the USB Irda Adaptor into the PC and run the PC configuration backup tool.
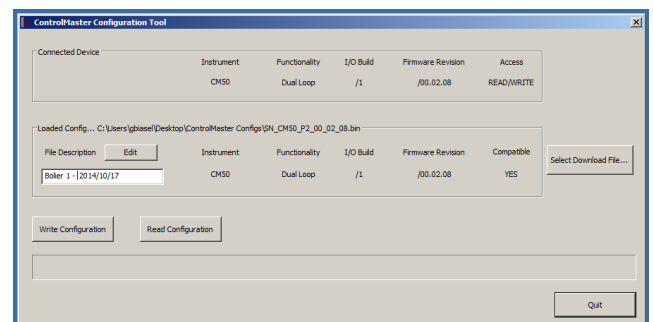    The *ControlMaster Configuration Tool* window is displayed:



2.  At the controller / indicator, press either the left hand or right hand key to display the *Access Level* page.
3.  Select *Advanced* (enter any passwords required).
4.  Select the *Device Setup* page.
5.  Use the up / down keys to select *IrDA configuration*.
6.  Select *Connect*.
    Align the USB Irda adaptor with the Irda port on the ControlMaster to establish a connection – see Fig. 4.1.
    When a connection is established the *Connected Device* group box is populated (as shown below):
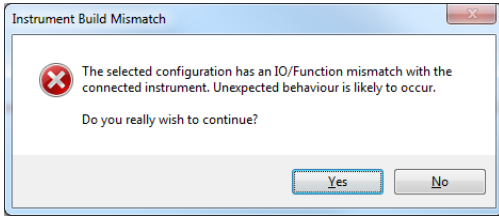


7.  Click the *Select Download* button.
8.  Select the file to be downloaded.
    When the required file has been selected, the *Loaded Configuration* group is populated with information about the file to be downloaded, including compatibility with the connected instrument (Yes / No).
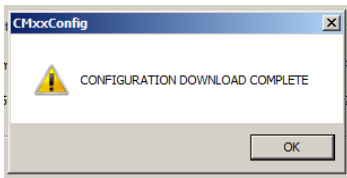


The *File Description* text field can be edited (if required). This edited information is stored as part of the instrument's configuration. (Once uploaded, configuration details can be viewed on the instrument at the *Configuration Level / Device Setup / IrDA Configuration / Config. Description* menu.)

9. Transfer the configuration to the instrument by clicking the *Write Configuration* button.
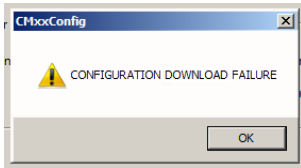
   If the functionality and / or I/O of the instrument does not match the configuration to be transferred, the following prompt is displayed providing the option to continue or cancel the upload:



10. Click *OK* to write the configuration to the instrument. A progress bar at the bottom of the dialog indicates progress (approximate time is 10 seconds).

    The following prompt is displayed if the transfer is successful:



    The following prompt is displayed if the transfer fails:



11. If the transfer is not successful, attempt to transfer the configuration again and proceed to step 12.

    If the problem persists:

    a. confirm the Irda connection is active by checking the ControlMaster and application status messages

    b. ensure a clear line-of-sight between the USB Irda adaptor and the ControlMaster

    If both conditions are met, return to step 9.

12. Exit the *ControlMaster Configuration Tool*.
13. Press *Exit* on the ControlMaster's *IrDA configuration* page.
14. The ControlMaster will restart.

## Contact us

**ABB Limited**
**Process Automation**
Howard Road, St. Neots
Cambridgeshire, PE19 8EU
UK
Tel:    +44 (0)870 600 6122
Fax:    +44 (0)1480 213 339
Mail:   enquiries.mp.uk@gb.abb.com


**ABB Inc.**
**Process Automation**
125 E. County Line Road
Warminster, PA 18974
USA
Tel:    +1 215 674 6000
Fax:    +1 215 674 7183

**www.abb.com**

Power and productivity
for a better world™

**ABB**