

ControlMaster indicators and controllers

Configuration Tool

Upload / download procedures

Measurement made easy



1 Introduction

A ControlMaster's configuration (controller's and indicator) can be backed up to a PC and restored to the device using the ControlMaster Configuration Tool.

The Configuration Tool is a utility used in conjunction with a USB IrDA adaptor (part no. B12895) and is available as part of a kit (see Section 2.1) or can be downloaded from www.abb.com/recorders.

2 Items required

2.1 Configuration Tool kit

Description	Part no.
USB IrDA adaptor	B12895
Information sheet	INF14/162-EN
Configuration Utility Software CD	SW/PCCONFIG/CM-EN

Table 2.1 Configuration Tool CM30/0714

3 Configuration Tool installation

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

3.1 USB IrDA Adaptor driver installation

A driver for the USB IrDA adaptor is also required.

1. Install the USB IrDA adaptor driver by following the manufacturer's instructions supplied with the adaptor.

3.1.1 IrDA port location on ControlMaster instruments

Fig. 3.1 show the location of the IrDA port on each instrument and recommended distance between 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.

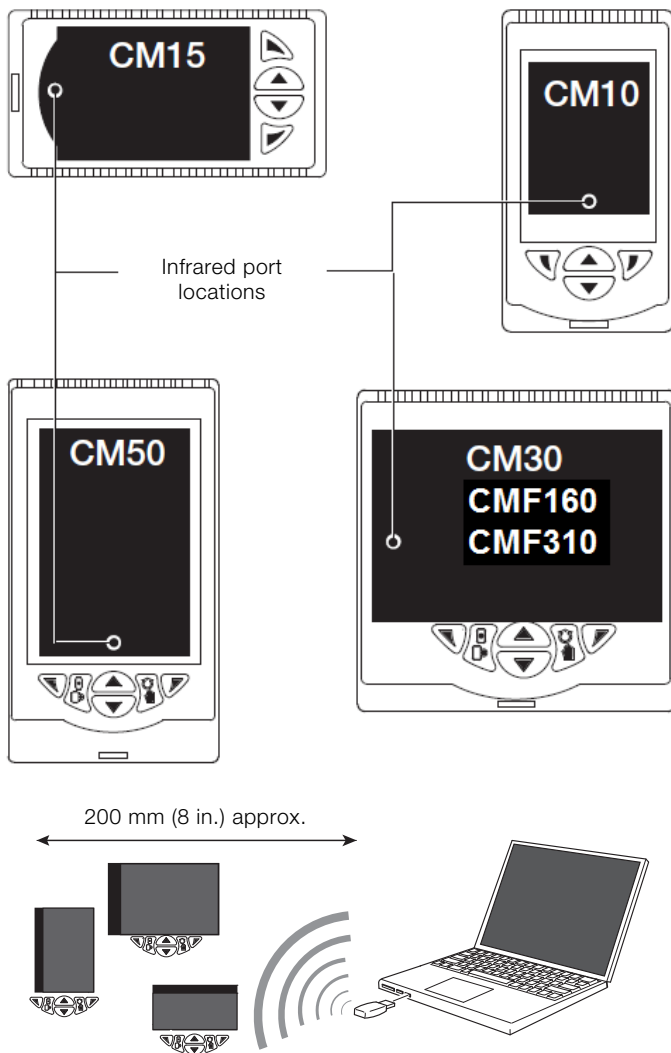
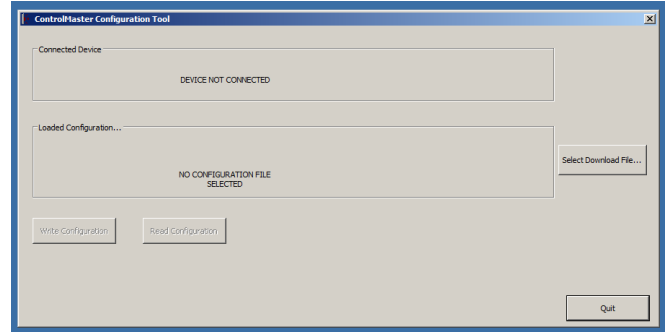


Fig. 3.1 IrDA port location on ControlMaster instruments

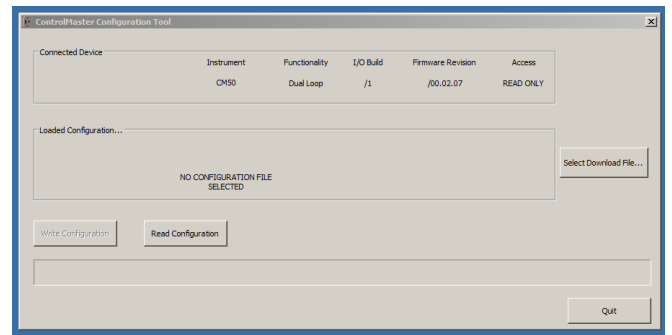
4 Backing up (downloading) a configuration

1. Plug the USB IrDA Adaptor into the PC and run the ControlMaster Configuration Tool utility. The *ControlMaster Configuration Tool* window is displayed:



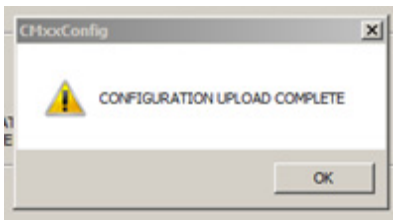
2. At the controller / indicator, press either the left hand or right hand key to display the *Access Level* page.
3. Select *Advanced* (enter any passwords required).
4. Select the *Device Setup* page.
5. Use the up / down keys to select *IrDA configuration*.
6. Select *Config. Description* to enter 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. 3.1. When a connection is established the *Connected Device* group box is populated (as shown below):



8. Select the *Read configuration* button.

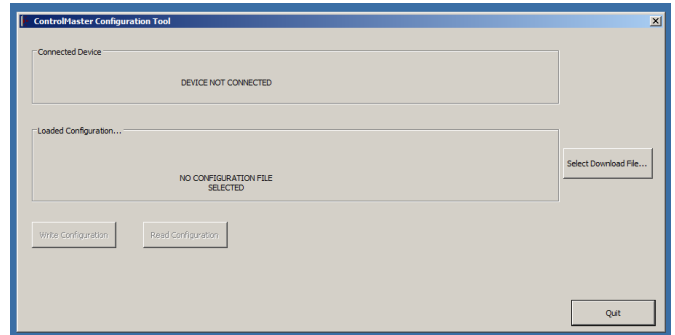
9. You are prompted to enter a file name and to select a save location for the configuration file. The configuration is now read from the instrument. A progress bar at the bottom of the dialog indicates progress (approximate time is 10 seconds). The following prompt is displayed if the transfer is successful:



10. If the transfer is not successful, attempt to read the configuration again and proceed to step 12.
11. If the problem persists:
- confirm the IrDA connection is still active by checking the instrument and application status messages
 - check the line of sight between the USB IrDA adaptor and the instrument is not temporarily broken or has been interrupted
- If both conditions are met, return to step 7.
12. Exit the *Configuration Tool* and exit *Configuration* level on the instrument.

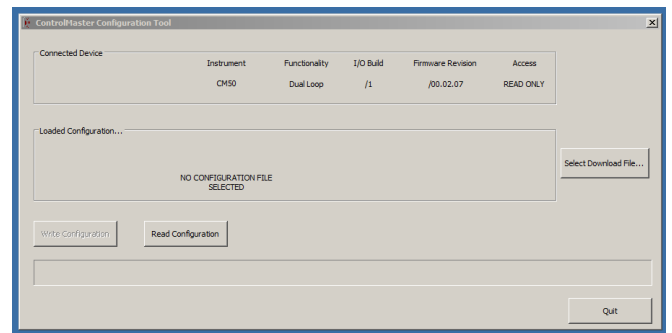
5 Restoring (uploading) a configuration

1. Plug the USB IrDA Adaptor into the PC and run the ControlMaster Configuration Tool utility. The *ControlMaster Configuration Tool* window is displayed:

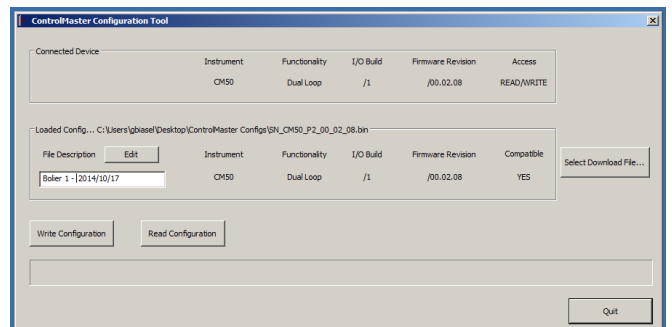


- At the controller / indicator, press either the left hand or right hand key to display the *Access Level* page.
- Select *Advanced* (enter any passwords required).
- Select the *Device Setup* page.
- Use the up / down keys to select *IrDA configuration*.
- Select *Connect*.

Align the USB IrDA Adaptor with the IrDA port on the ControlMaster to establish a connection – see Fig. 3.1. When a connection is established the *Connected Device* group box is populated (as shown below):



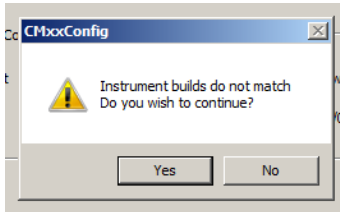
- Click the *Select Download* button.
- Select the file to be downloaded. When the required file has been selected, the *Loaded Configuration* group is populated with information about the file to be downloaded, including compatibility with the connected instrument (Yes / No).



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.)

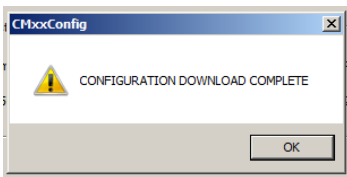
- Transfer the configuration to the instrument by clicking the *Write Configuration* button.

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:

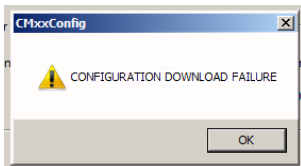


- Click *OK* to write the configuration to the instrument. A progress bar at the bottom of the dialog indicates progress (approximate time is 10 seconds).

The following prompt is displayed if the transfer is successful:



The following prompt is displayed if the transfer fails:



- If the transfer is not successful, attempt to transfer the configuration again and proceed to step 12. If the problem persists:
 - confirm the IrDA connection is still active by checking the instrument and application status messages
 - check the line of sight between the USB IrDA adaptor and the instrument is not temporarily broken or has been interruptedIf both conditions are met, return to step 9.
- Exit the *Configuration Tool* and exit *Configuration* level on the instrument.

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