

ControlMaster controllers and indicators ConfigPilot Creating, uploading and downloading configurations

Measurement made easy



1 Introduction

A configuration for a ControlMaster (both controller and indicator) can be created, modified and backed up to a PC using the ConfigPilot software program.

ConfigPilot 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 ConfigPilot kit

Description	Part no.
USB IrDA adaptor	B12895
This publication	IN/RandC/003-EN

Table 2.1 ConfigPilot kit CM30/0715

3 Firmware revision

The following instrument firmware revisions are compatible with ConfigPilot:

Instrument	Firmware revision	
CM15	CM15 P2 00 02 22	or later
	CM15 P2 01 02 22	
CM10	CM10 P2 00 02 22	or later
	CM10 P2 01 02 22	
CM30	CM30 P2 00 02 22	or later
CM50	CM50 P2 00 02 22	or later
CMF160	CMF160 P2 00 02 22	or later
CMF310	CMF310 P2 00 02 22	or later

Table 3.1 Instrument firmware revisions

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

4 ConfigPilot installation

1. Copy the ConfigPilot 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.

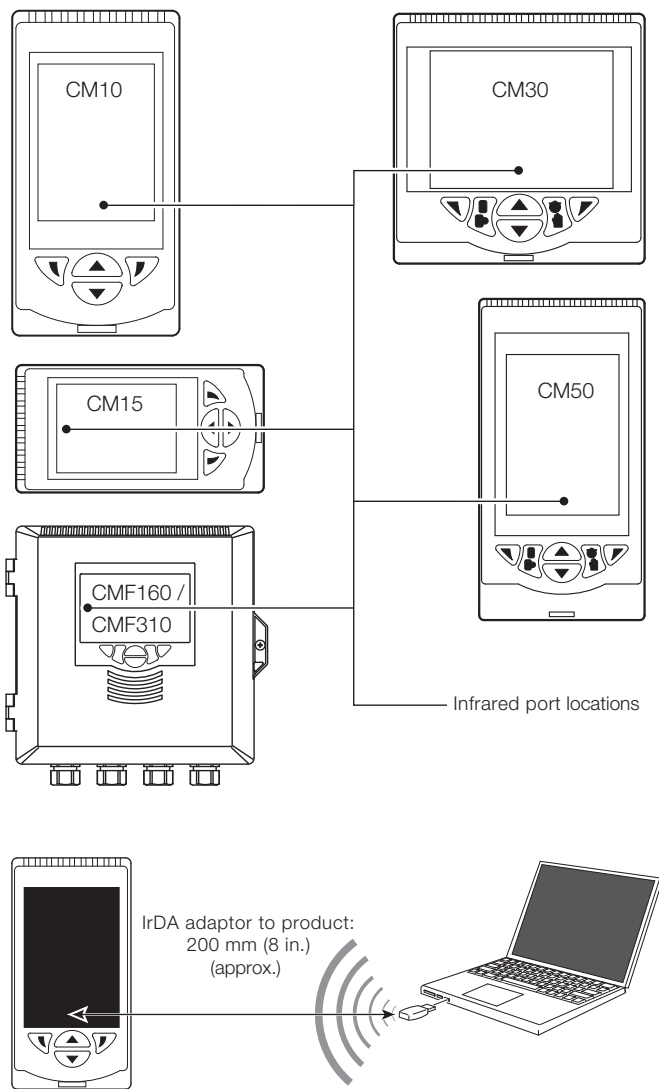
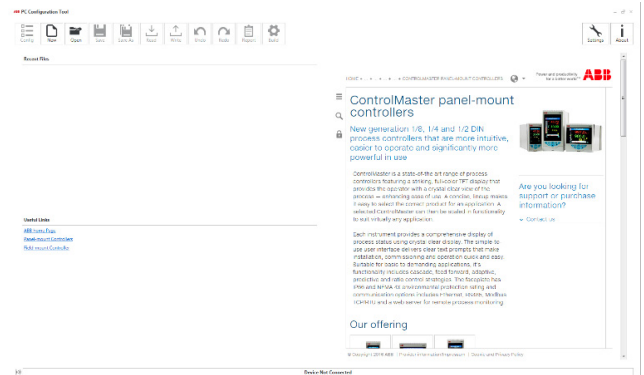


Fig. 4.1 IrDA port locations

5 Getting started

1. Start the application from the Windows® Start menu (or desktop shortcut if available).
2. When the application starts, the application home page is displayed:



The home page is divided into a number of sections:

- a. The main features of ConfigPilot are accessed from the Icon ribbon located at the top of the main window:
- b. The window on the right hand side displays information from the dedicated ConfigPilot website when connected to the internet.
- c. The *Recent Files* window displays a list of the most recently opened configuration files. Clicking on the file name opens the file and opens the configuration window.
- d. The *Useful Links* window displays a number of useful links such as the ABB website and links to product documentation.

Section 6 explains the purpose of each of the icons.

Note. Select the *Home* (🏠) icon to return to the *Home* view from the *Configuration* view.

6 Icons

6.1 Creating a new configuration

1. Select the *New* icon.
2. Select the product that you wish to configure from the displayed options and click *OK*.
3. Select the required *Build Options* and click *OK*.
4. The configuration window is displayed.

6.2 Opening an existing configuration

1. Select the *Open* icon.
2. Navigate to the required location and select the configuration file you wish to open.
3. Click the *Open* button to open the file and load the *Configuration* window.

6.3 Saving a configuration file with existing filename

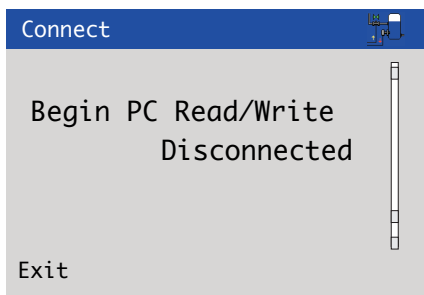
1. Select the *Save* icon to save an open configuration file with the same file name.


6.4 Saving a configuration file with a new filename

1. Select the *Save As* icon to save an open configuration file with a different filename.
2. Navigate to the required storage location and enter the required filename.
3. Click on the *Save* button to save the file with the new file name.

6.5 Reading a configuration from a connected device

1. Ensure the USB IrDA adaptor is plugged into the PC.
2. On the instrument, press either the left hand or right hand key to display the *Access Level* page.
3. Select *Advanced* (enter any password required).
4. Select the *Device Setup* page.
5. Use the up / down keys to select *IrDA configuration*.
6. Highlight *Connect* and press *Select* to show the following screen:



7. Align the USB IrDA adaptor with the instrument to establish a connection. When a connection is established the  icon on the bottom left hand corner of the application window turns green and the *Connected device* box is populated as shown in Fig. 11.1.

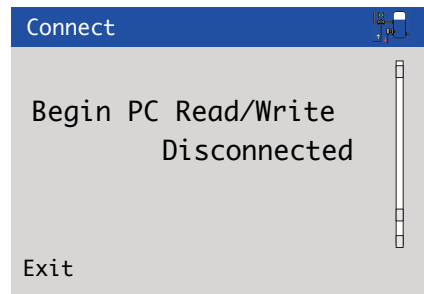
8. Select the *Read* icon.

Note. If the configuration is already open, a warning dialog is displayed to indicate the existing configuration will be overwritten – a warning **is not** displayed on first read.

9. Select *Yes* to continue or *No* to abort the read.
10. If *Yes* is selected the configuration is read from the instrument to the application.
11. An information dialog is displayed to indicate a successful or unsuccessful read.

6.6 Writing a configuration to a connected device

1. Ensure the USB IrDA adaptor is plugged into the PC.
2. On the instrument, press either the left hand or right hand key to display the *Access Level* page.
3. Select *Advanced* (enter any password required).
4. Select the *Device Setup* page.
5. Use the up / down keys to select *IrDA configuration*.
6. Highlight *Connect* and press *Select* to show the following screen:



7. Align the USB IrDA adaptor with the instrument to establish a connection. When a connection is established the *Connected* icon on the bottom left hand corner of the application window will turn green and the *Connected device* box is populated as shown in Fig. 11.1.
8. Select the *Write* icon.

Note. A warning dialog is displayed to indicate the existing configuration will be overwritten.

9. Select *Yes* to continue or *No* to abort the read.
10. If *Yes* is selected the configuration is written from the application to the instrument.
11. An information dialog is displayed to indicate a successful or unsuccessful write.

Note. If the instrument build and the configuration build selected do not match, a warning dialog is displayed and an option is provided to continue or abort the write.


Instrument Type: CM30	I/O Build: 3	Functionality: Dual Loop Comms. Module: Ethernet	No. Analog Inputs: 4	No. Analog Outputs: 2	No. Relays: 4	No. Digital I/O: 6	Config. Description:
 Instrument Type: CM30	I/O Build: 3	Functionality: Extended	Comms. Module: Ethernet	Software Revision: /00.02.22	Access: Read / Write		

Fig. 11.1 Connected device box showing connection established


6.7 Undo / Redo

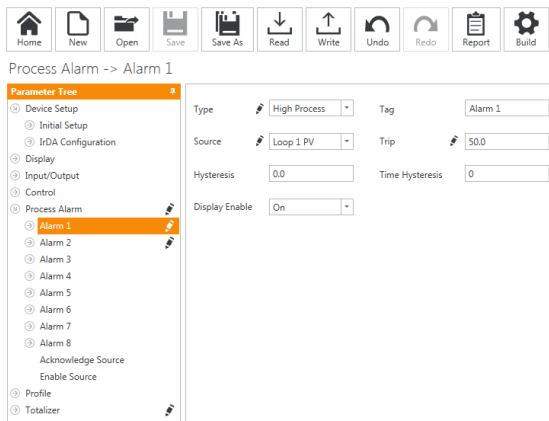
Note: The following parameters are not included as part of a configuration upload and download:

- Instrument Serial Number
- Security passwords and Settings
- Display Contrast & Brightness settings
- Input and Output calibration data

These parameters are unique to the instrument, and settings must be adjusted accordingly.

1. Use the *Undo*, *Redo* icons to undo or redo changes made to the configuration.

Changed parameters are indicated by the  icon placed next to a changed parameter and also within the parameter tree to indicate where configuration changes have been made.



Note: The pencil icon disappears once the configuration has been saved. Unsaved writes to the instrument are identified by the pencil icon, but closing ConfigPilot loses any changes still marked with the pencil.

6.8 Generating a configuration report

1. Select the *Report* icon to open the report generation window.
2. By default all parameters are included in the report. Parameters can be excluded / included at the menu level by selecting from the tree view on the left hand side and clicking on the *Update* button.
3. When the required parameters have been selected the report can be saved in Word®, Excel® or PDF formats, or directly printed from the application.

6.9 Changing build options for the configuration

1. Select the *Build* icon to open the build options window.
2. The build of the instrument you want to create a configuration for can be modified.
3. Once completed, press *OK* to return to the *Configuration* window.

6.10 Application settings

1. Select the *Settings* icon to change the application language and theme.

6.11 Application information

1. Select the *About* icon to change the application and compatible instruments.

Note. While it is possible to open multiple sessions of ConfigPilot, usually it is only possible to connect to an instrument through the first session (only 1 session at a time may perform read and write to the ControlMaster).

Acknowledgements

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