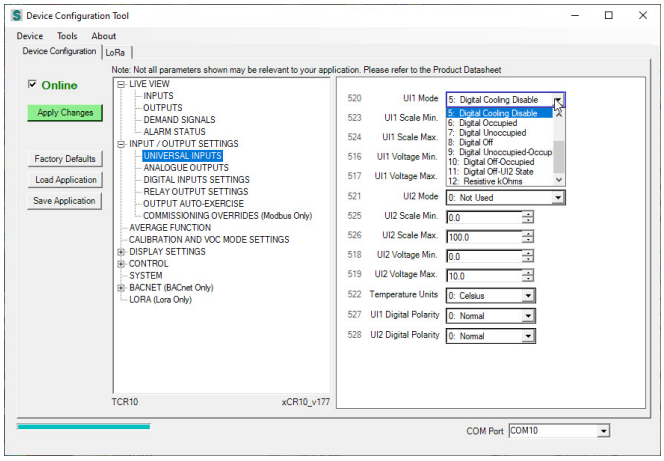
Senticon
SENTIENT CONTROL SOLUTIONS

Technical Data Sheet PS8.01 PC TOOL

PC DEVICE CONFIGURATION TOOL for Smart Sensor and Room Controllers



The Device Configuration tool is Microsoft Windows based configuration tool that can be used for the Smart Room Sensor and Intelligent Room Controller configuration. The software is connected wirelessly to the devices using two Bluetooth dongles (BLE-TOOLSET), or alternatively using USB to Serial (USB-SERIAL) converter. The tool can also be used in offline mode allowing configuration without actual device.

Using the tool the device configuration can changed to the site requirements, and a backup can be stored in the local computer. Using backups it is easy and fast to copy configuration from one device to other in case where multiple same type of devices are deployed on the project.

Features

- Windows 10/11 based Device Configuration Tool
- Used for the xER10 (QER/TER/MER/VER) sensor and xCR10 Series (TCR10/QCR10 series) controller, TCR80 Series Controller, xVR20 Series VAV Controller, xCR04 Series Compact Controller, xDR20 User Interface and PMR25 Particulate Matter Sensor configuration
- On connection the approriate Device Template is automatically loaded
- Offline configuration mode allows the device configuration without the device connected to the tool
- Option to load specific Device Interface Template files
- Allows Language Packs to be loaded to the Device

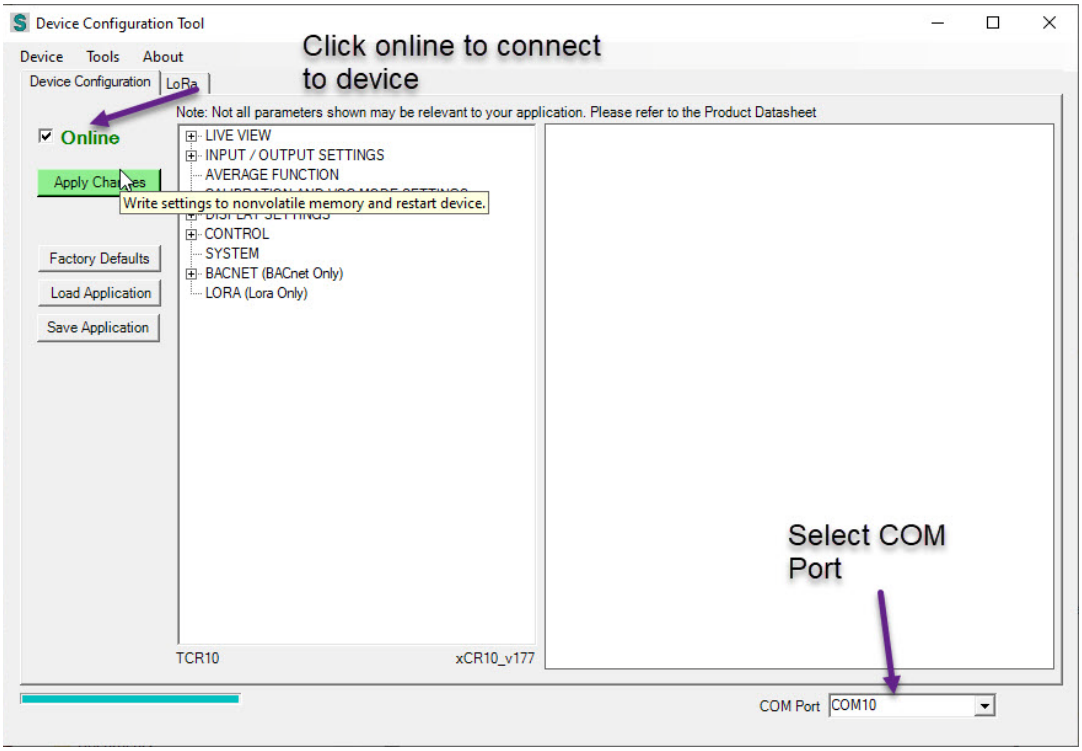
Associated Product Part Number

Part Number	Description	Article Number (SKU)
BLE-TOOLSET	Bluetooth Dongle Pair for PC and Senticon Devices	9900 0 00 00 00 01
USB-SERIAL	USB to Serial Dongle with Electrical Isolation	9900 0 00 00 00 10

Connecting the Tool to Device

After opening the tool:-

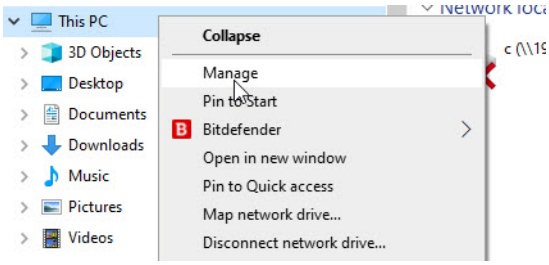
- Select the *'COM Port'* for the BLE Dongle (wireless connection), or for the USB-SERIAL converter
- Press *'Connect'* to connect to the device

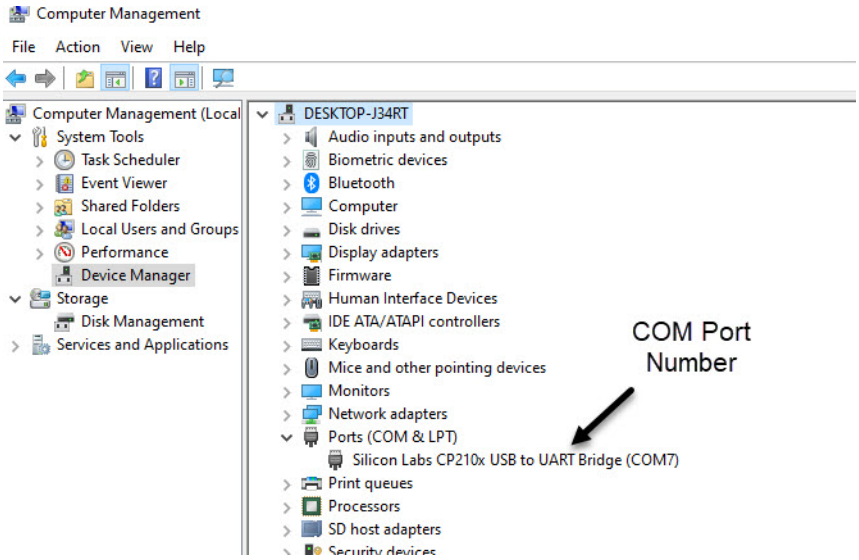


Finding Out the Com Port

To find out to which COM port the BLE Dongle (or other interface cable) is connected go to the *Device Manager* and check *Ports (COM&LPT)* menu. If the BLE Dongle has been correctly installed you should see it's COM port number.

TIP: If multiple COM ports are displayed, just unplug the USB BLE Dongle and plug it in again to see which COM port number is related to it.


This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Collapse
Manage
Pin to Start
Bitdefender
Open in new window
Pin to Quick access
Map network drive...
Disconnect network drive...

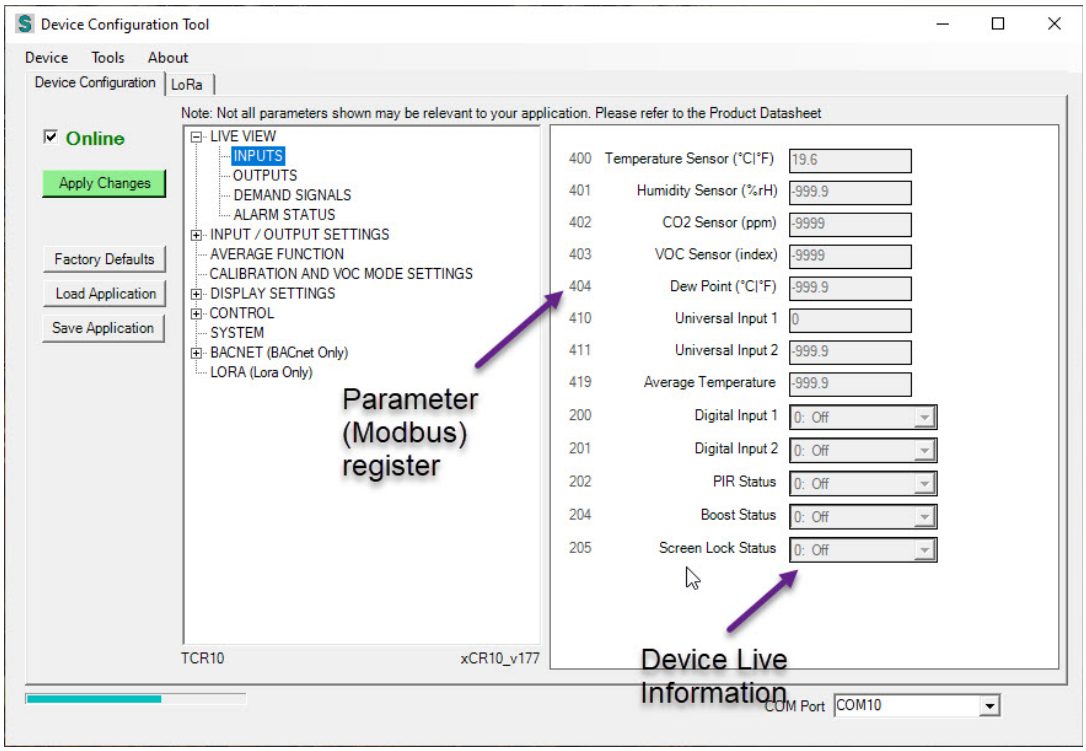

Computer Management
File Action View Help
Computer Management (Local
System Tools
Task Scheduler
Event Viewer
Shared Folders
Local Users and Groups
Performance
Device Manager
Storage
Disk Management
Services and Applications
DESKTOP-J34RT
Audio inputs and outputs
Biometric devices
Bluetooth
Computer
Disk drives
Display adapters
Firmware
Human Interface Devices
IDE ATA/ATAPI controllers
Keyboards
Mice and other pointing devices
Monitors
Network adapters
Ports (COM & LPT)
Silicon Labs CP210x USB to UART Bridge (COM7)
Print queues
Processors
SD host adapters
COM Port Number

Live View

After connecting to the device open the Live View menus to see the current status of the device. The Status Bar on the bottom left corner of the tool indicates the polling of the Device.

The status information of the device is updated on the right hand side of the screen.

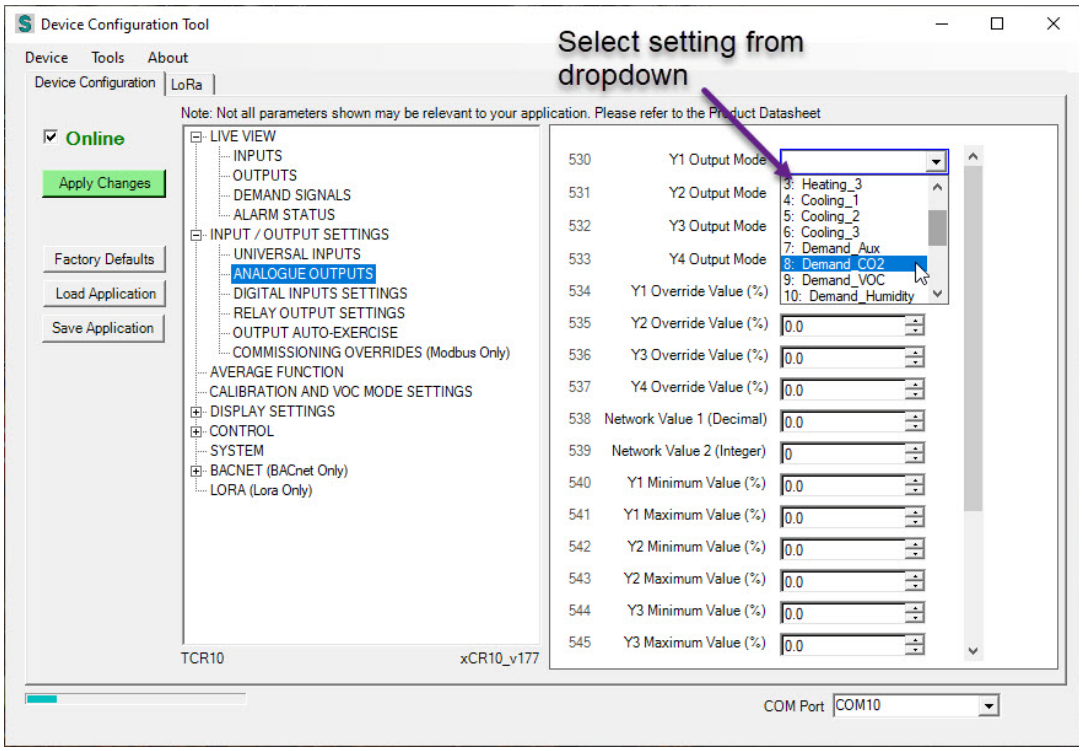
TIP: The parameters displayed on the tool reflect the connected device. E.g. if the tool is connected to (QER/TER/MER/VER) sensors then refer to their data sheet for the parameter info.



Configuring the Device

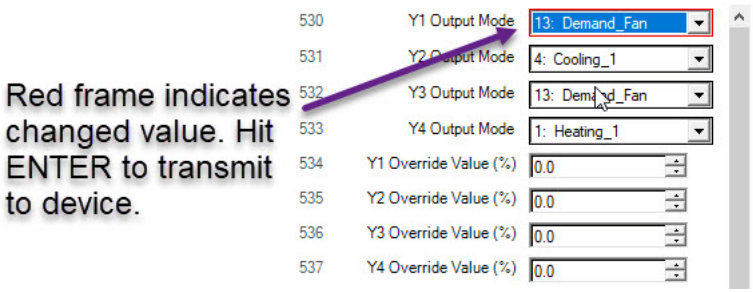
To configure the device, open the configuration menus and the change the settings on the right hand side of the window.

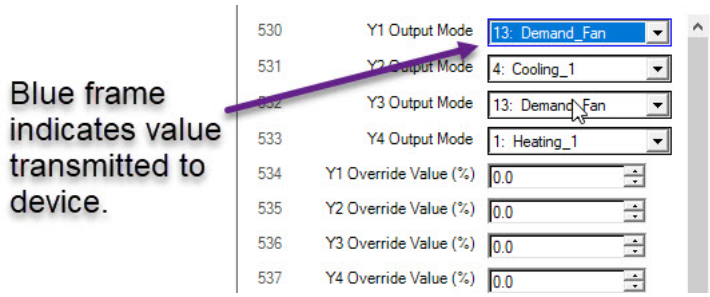
- On the drowpdown boxes select the required option
- On the value fields either type in the new required value or use up&down arrows to change the value



After changing the value, the frame around the box changes to *'Red'* indicating that it has been changed but not yet transmitted to the device.

After pressing enter on the Keyboard or on de-focus, the new value is transmitted to the device. After succeful transmission the frame colour changes to *'blue'*.





Device and Application Buttons

On the left area of the window marked as 'Device' there are number of buttons:-

- *'Online'* is ticked to connect to the device and create online connection. Note. If open dialogue appears the tool is not conencted to the device, check the COM port.
- *'Persist Settings'* stores the configuration settings on the Device to the non-volatile memory and Resets the device to use the latest settings. Use this button after the configuration changes have been made (or completed).
- *'Factory Defaults'* can be used to load factory default configuration settings. NOTE: All changes made to the configuration are changed back to the factory defaults.
- '*Load Application* ' is used to load the saved application profile backup to the Device Configuration Tool software. If the Online flag is set, the loaded application is automatically written to the device.
- '*Save Application*' is used to save the Device application configuration settings to computer's hard drive for backup. If the device is Online, then the configuration settings are first Uploaded from the Device to the Configuration Tool.
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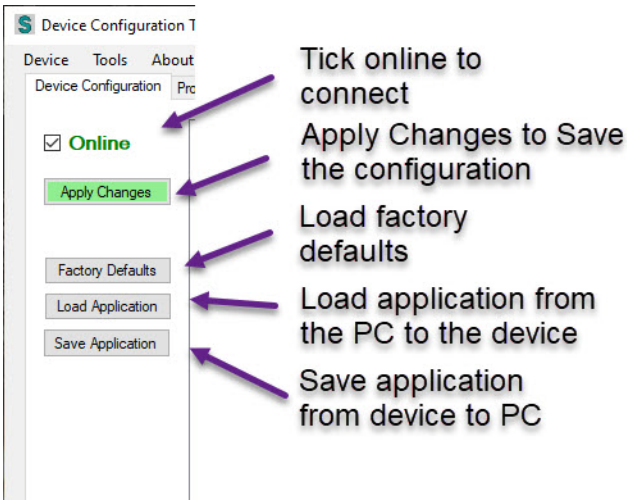


Menus

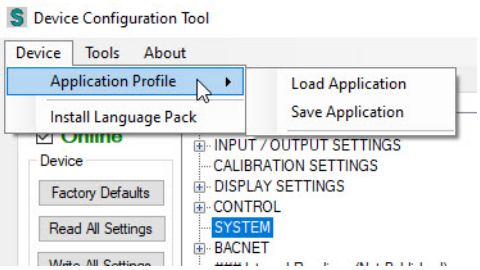
Use Application Profile buttons to save the device configuration to the hard disk and load an existing configuration from the hard disk to *'Download'* it to the device.

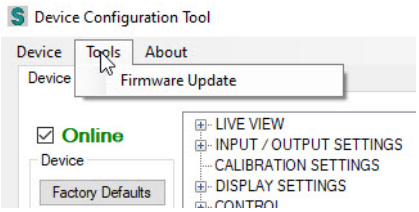
Device Menu

- *'Application Profile - Load Application'* is used to load the application backup from the device to the tool
- *'Application Profile - Save Application'* is used to save the application backup to the PC.
- *'Install Language Pack'* allows a Language Pack to be installed to the device. Once the language pack is installed it can be actiavated from the Device Template's System menu.

Tools Menu

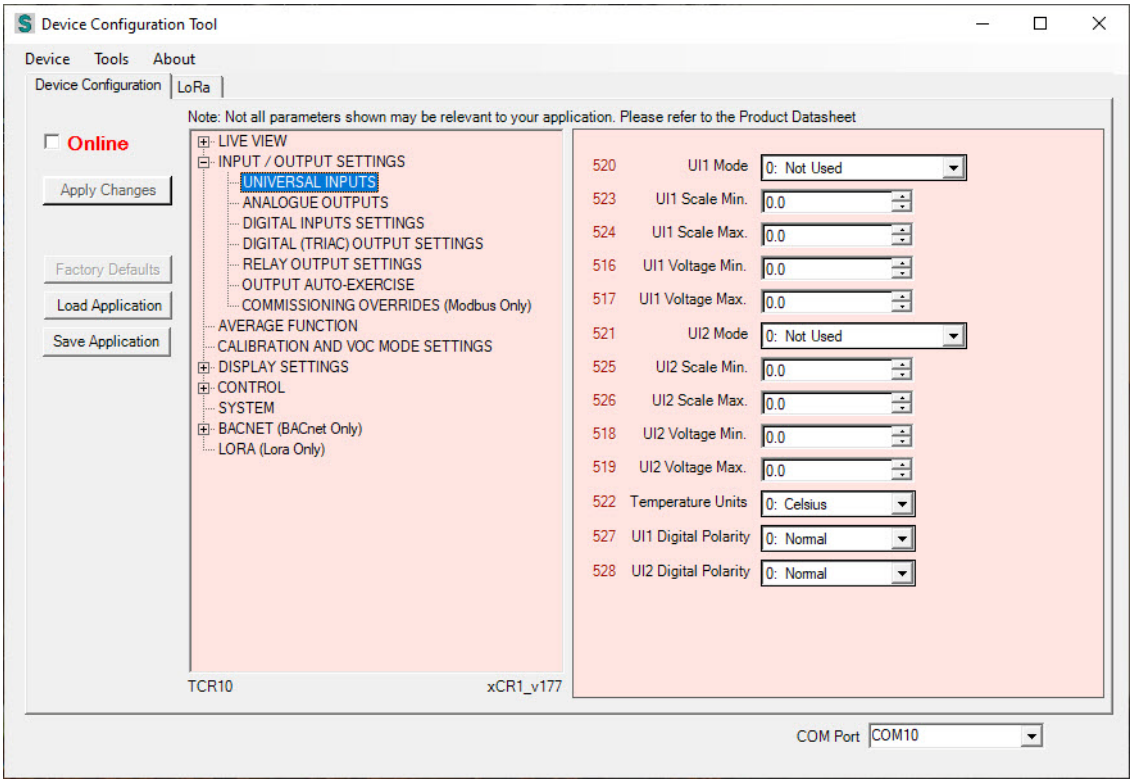
- *'Firmware Upgrade'* allows the device firmware to be upgraded





Offline Configuration

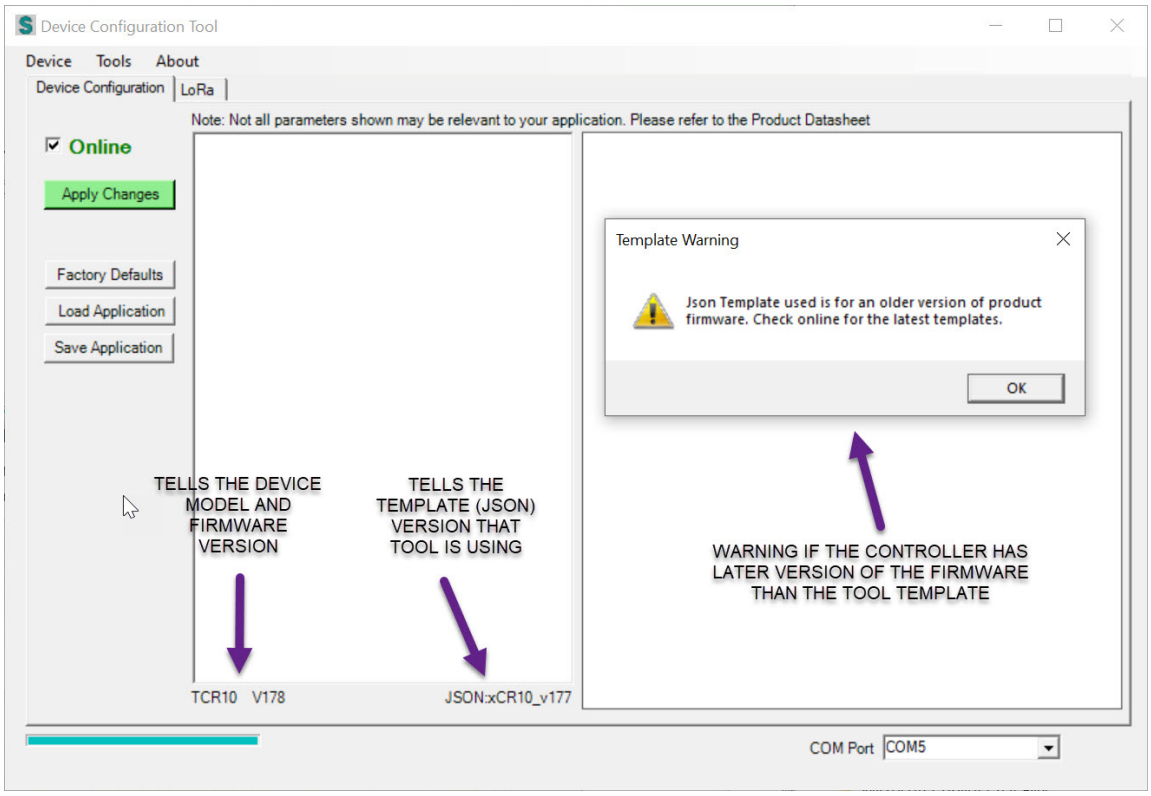
It is possible to configure the application offline without the need of connection to the device. This is done by 'Unticking' the Online flag. The tool goes to 'Offline' mode and the background colour is changed to Red.



By using the *'Load Application'* button it is possible to load the existing device application to the tool. After loading the application the devices configuration can be altered from the tree menu.

Once the configuration changes have been completed, use '*Save Application*' button to save the configuration to the hard drive.

NOTE: The '*default applications'* folder on the tool has the default application configuration files for the devices. These can be used if there is no existing backup of the device.

Software Updates

From version 1.49 onward the tool will check the device firmware version and the template version number stored in /templates folder. If the template is older than the device fimrware version, the below warning is shown. In this case it is recommended to update the tool / or device JSON template.