

### **Installation Instructions - Configuring**

# **IQ5, IQ5-IO** Controller & I/O Modules

#### Important: Retain these instructions

These instructions shall be used by trained service personnel only. If the equipment is used in a manner not specified by these instructions, the protection provided by the equipment may be impaired.

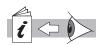
#### https://partners.trendcontrols.com

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3	Reset IQ5 Controller to Factory Defaults23	6	Set an IQ5-IO module to OnLine Mode	
4	Reset a T1L Device to Factory Defaults24			

### **BEFORE STARTING CONFIGURATION**

### Install the IQ5, I/O Modules & Adapters



IQ500 Installation Instructions - Mounting (TG201482) IQ528 Installation Instructions - Mounting (TG201513) IQ5-IO Installation Instructions - Mounting (TG201484) IQ4/IO/.. Installation Instructions - Mounting (TG201342) XCITE/IO/.. Installation Instructions - Mounting (TG200627) IQ5-LAN-ADPT Current Loop LAN Adapter Installation Instructions - Mounting (TG201511)

### Install IQ®SET on Engineering PC / Laptop



IQSET Manual (TE200147)

#### **Additional Documentation Required**

- IQSET Manual (TE200147)
- IP Tool Manual (TE200638)
- IQTool Monitor Applet Manual (TE201298)
- IQTool Addresser Applet Manual (TE201299)
- IQ5 Configuration Manual (TE201486)

Note: PDF copies are included with IQSET installation in the following folder: C:\...\Trend Control Systems\Documentation

#### Prepare the Ethernet Network(s)

#### **Install DHCP Server**

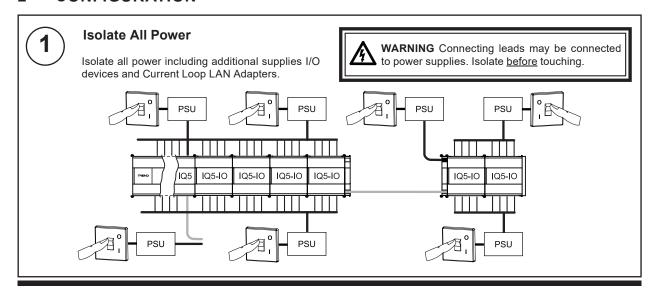
If the IP address settings (IP address, subnet mask, default router, WINS and DNS servers' addresses) are to be supplied by a DHCP server, ensure one is installed on the Ethernet segment to which IQ5 is connected.

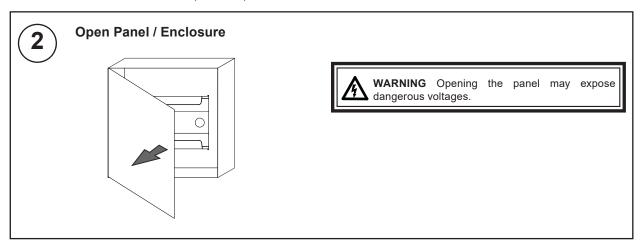
#### Install DNS Server

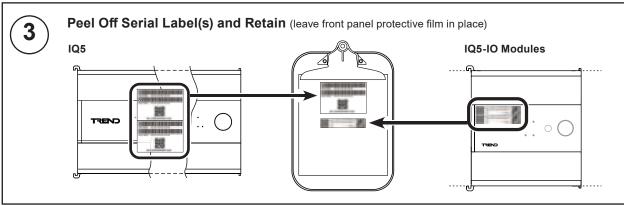
If email alarms are to be sent, and the email server address is identified by internet domain name, a DNS server must be installed.

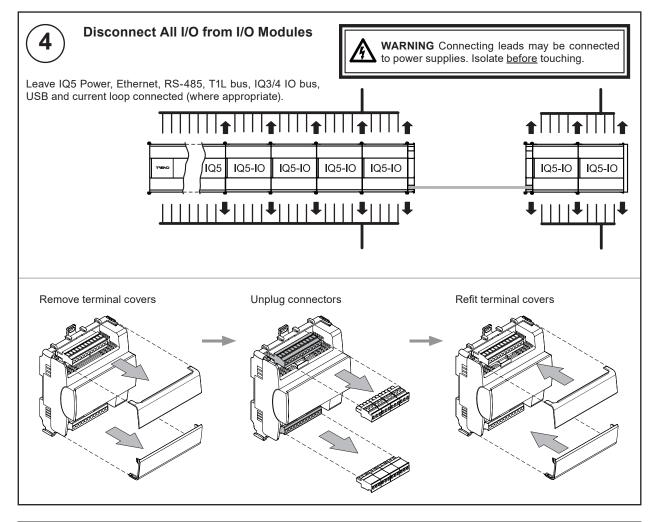
Note: IQ5 does not support WINS. If hostnames are to be used, then a DNS server is recommended. For security the use of LLMNR protocol is not advised.

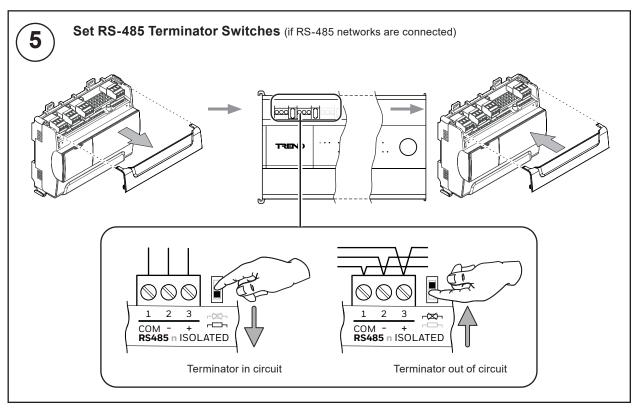
#### 2 CONFIGURATION

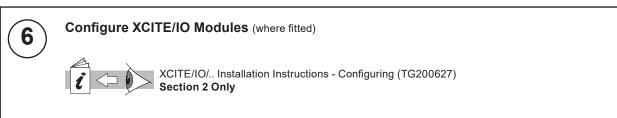


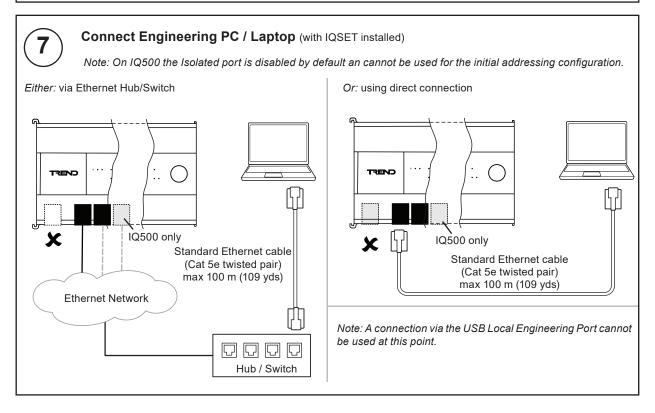


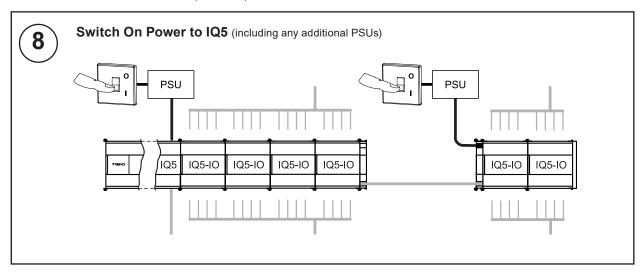


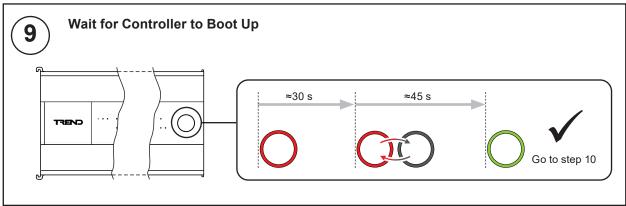


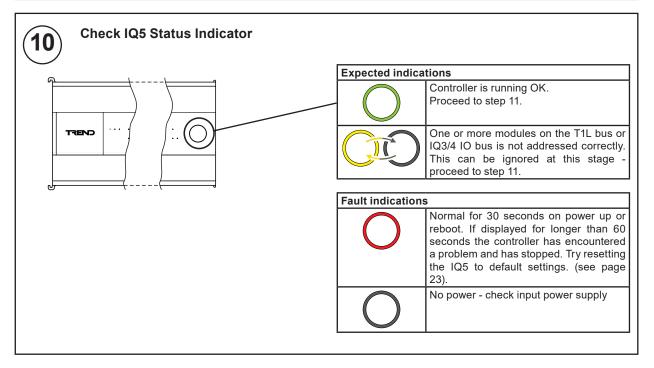


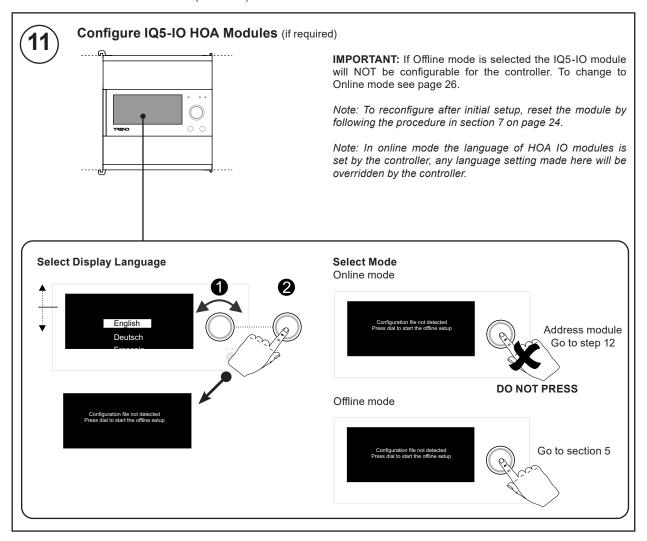


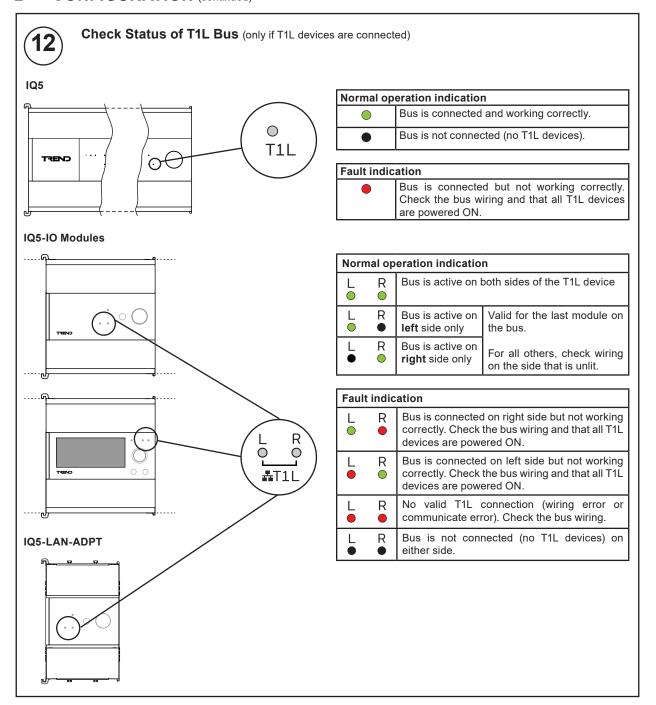


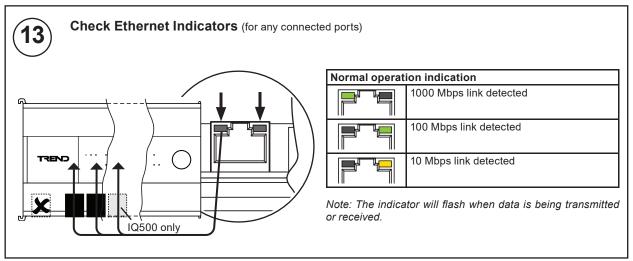


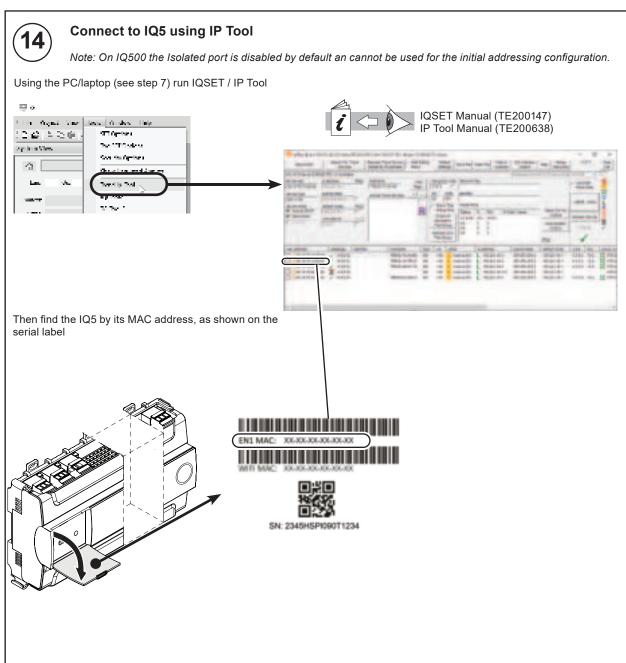














### Set up Addressing Details (IQ5 Mode)

This step describes how to set up the addressing details when the IQ5 is to operate in IQ5 mode. For details of setting up the addressing details for Compatibility Mode see step 16.

Note: On IQ500 the Isolated port is disabled by default an cannot be used for the initial addressing configuration. Once the initial addressing information has been set up the required Ethernet ports can be enable/disabled and configured as required in the controller's strategy.

With the IQ5 selected in the IPTool devices list, check the following parameters and set as required.

**IMPORTANT:** The Network Key, Ian and node parameters MUST be set.

Parameter	Setting / Value	Further Details		
*IQ4 Compatibility Mode	= operate in IQ5 mode	For the IQ5 to operate in IQ5 mode this check box must be unchecked .		
Network Mode - Networked*	= build Trend network with other devices (default)     = operate in standalone mode	In standalone mode the IQ5 will not build a LAN internetwork with other devices.		
Network Mode - Auto-ip-DHCP*	= dynamic IP DHCP (default) = static IP addressing	If set to DHCP mode but no DHCP server is found, the IQ5 will operate in link/local mode where it auto negotiates its IP address with other devices on its Ethernet segment.		
		Note: It is recommended that link/local only be used on a single segment system.		
IP Address*, Subnet Mask*, Default Router*	If static IP addressing is selected enter the required values in the format: xxx.xxx.xxx	WINS is not supported by IQ5. If hostnames are to be used, then a DNS server is recommended. The use of LLMNR protocol is not advised.		
Hostname	Default is 'Trend-' plus the last three octets from the MAC address. Change if required.	The hostname may comprise upper or lowercase characters A to Z, digits 0 to 9, underscore or hyphen, with no spaces.		
UDP	Default is 57612. If required, this can be changed to a value in the range 0 and 65535 (recommended range 49152 to 65535).	All IQ5 controllers that are required to be part of the same Trend network must have the same udp port number and the same network key. Multiple Trend		
Network Key	Enter a suitable key comprising at least 10 alphanumeric characters (no spaces).	networks can exist on the same physical network, in which case each separate Trend network will require a different network key.		
	Do not forget the Network Key!	HINT: For consistency, type the network key into a text editor (e.g. Notepad), then copy and paste it for each device.		
		Note: If the network is on the same Ethernet network as a legacy Trend network the two networks MUST NOT share the same UPD port.		
virtual CNCs*	Click Auto Number vCNCs or double-click on a vCNC in the virtual CNCs list and enter the following:  node - the vCNC address 1, 4 to 9, 11 to 119	The IQ5 has four vCNCs (or eight when licenced as an NC device). All vCNCs are all disabled by default. At least one vCNC must be enabled to allow a supervisor, tool or local display to make a connection to the Trend system.		
	(0 = vCNC disabled) port - the vCNC port number 1 to 32767 Note: If Use Default Port is checked the port number will be set to 10000 plus the node address (e.g. node 23 = port 10023).	For most systems it is recommended to have vCNCs on at least two separate devices on each LAN in order to provide continuity of communications (if one device is offline) and to provide load sharing during intensive data transfer operations (e.g. when downloading plot data).		
LAN*	Enter the required local LAN number: 1, 4 to 9, 11 to 119	IQ5 controllers are given a default device address of 20 and LAN number of 20 in the factory.		
	Note: This <b>must</b> be the same for all devices required to form a LAN.			
OS*	Enter the required device address: 1, 4 to 9, 11 to 119			
	Note: This must be unique on a LAN.			
Identifier	Enter a name that identifies the controller within the system.	To avoid potential confusion, it is generally recommended that this is made the same as the hostname.		

Click the WRITE DATA button to save the new settings.

\*Indicates the IQ5 will reboot when the parameter is saved.



### Set up Addressing Details (Compatibility Mode)

This step describes how to set up the addressing details when the IQ5 is to operate in Compatibility Mode. For details of setting up the addressing details for IQ5 Mode see step 15.

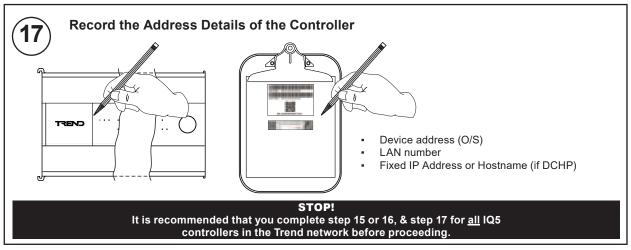
On IQ500s the isolated port is not supported in compatibility mode. Once the initial addressing information has been set up the required Ethernet ports can be enable/disabled and configured as required in the controller's strategy. With the IQ5 selected in the IPTool devices list, check the following parameters and set as required.

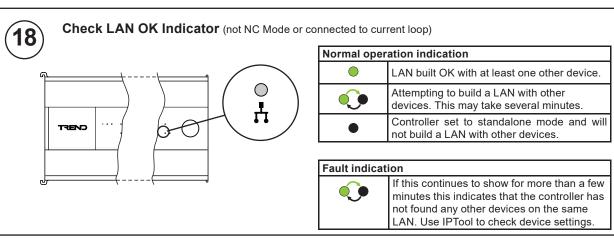
**IMPORTANT:** The lan and node parameters MUST be set.

Parameter	Setting / Value	Further Details
*IQ4 Compatibility Mode*	■ = operate in Compatibility mode	For the IQ5 to operate in Compatibility mode this check box must be unchecked .
Network Mode - Networked*	■ = build Trend network with other devices (default)     □ = operate in standalone mode	In standalone mode the IQ5 will not build a LAN or internetwork with other devices.
Network Mode - Auto-ip-DHCP*	■ = dynamic IP DHCP (default) ■ = static IP addressing	If set to DHCP mode but no DHCP server is found, the IQ5 will operate in link/local mode where it auto negotiates its IP address with other devices on its Ethernet segment.  Note: It is recommended that link/local only be used on a
		single segment system.
IP Address*, Subnet Mask*, Default Router*	If static IP addressing is selected enter the required values in the format:  xxx.xxx.xxx.xxx	
Hostname	Default is 'Trend-' plus the last three octets from the MAC address. Change if required.	The hostname may comprise upper or lowercase characters A to Z, digits 0 to 9, underscore or hyphen, with no spaces.
UDP	Default is 57612. If required, this can be changed to a value in the range 0 and 65535 (recommended range 49152 to 65535).	All IQ5 controllers that are required to be part of the same Trend network must have the same udp port number. Multiple Trend networks can exist on the same physical network, in which case each separate Trend network will require a different udp port.
Remote Devices	Enter up to 20 remote Trend devices by clicking and entering the following for each device:  IP Address and Subnet Mask in the format:  XXX.XXX.XXX.XXX	If a Trend LAN is to be built across a router(s) details of devices on each subnet must be specified to enable cross-router communications. It is recommended that <u>at least two devices</u> from each subnet are specified. For increased reliability details of up to 20 devices should be specified. If static IP addressing is being used the list should contain the devices with the lowest IP addresses.
	Note: If Use Hostname is checked the device can be specified by entering its hostname instead of IP Address. If using DHCP it is advisable to use hostnames.	The same list must be copied to other IQ5s on the network. HINT: Ticking the check box next to the Remote Trend Devices list retains the list in IPTool, allowing it to be easily copied to other devices.
virtual CNCs*	Click Auto Number vCNCs or double-click on a vCNC in the virtual CNCs list and enter the following: node - the vCNC address 1, 4 to 9, 11 to 119	The IQ5 has four vCNCs (or eight when licenced as an NC device). All vCNCs are all disabled by default. At least one vCNC must be enabled to allow a supervisor, tool or local display to make a connection to the Trend system.
	(0 = vCNC disabled)  port - the vCNC port number 1 to 32767  Note: If Use Default Port is checked the port number will be set to 10000 plus the node address (e.g. node 23 = port 10023).	For most systems it is recommended to have vCNCs on at least two separate devices on each LAN in order to provide continuity of communications (if one device is offline) and to provide load sharing during intensive data transfer operations (e.g. when downloading plot data).
LAN*	Enter the required local LAN number: 1, 4 to 9, 11 to 119 Note: This <b>must</b> be the same for all devices	IQ5 controllers are given a default device address of 20 and LAN number of 20 in the factory.
OS*	required to form a LAN.  Enter the required device address: 1, 4 to 9, 11 to 119  Note: This must be unique on a LAN.	
Identifier	Enter a name that identifies the controller within the system.	To avoid potential confusion, it is generally recommended that this is made the same as the hostname.

Click the WRITE DATA button to save the new settings.

\*Indicates the IQ5 will reboot when the parameter is saved. If an IQ5-LAN-ADPT is connected the IQ5's the Type 1 (IQ LAN) Network module will be enabled when the IQ5 is put into compatibility mode.







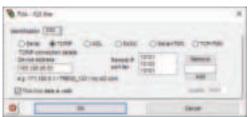
### **Connect to the Trend Network using IQSET**

Using the Engineering PC/Laptop (see step 7) run IQSET and make a connection to the Trend Network (or Site). For example:



IQSET Manual (TE200147)

- Open a new site (e.g. File > Open/New Project > Live Site)
- In the IQSET System View panel right-click on Sites and select New Site.
- Select Trend as the network type and click OK.
- Enter a Site name and click Edit site details. The Connection Wizard will appear.
- Select Launching TUA Editor and click Next. The TUA editor will appear. Select the CNC tab:



 Select TCP/IP, enter the IP Address (or hostname) of an IQ5 and add at least one valid vCNC port in the Remote IP port list.

Note: If using a hostname and DNS or LLMNR is not supported on the network, add '.local' to the hostname and ensure that IQSET is connected to the same segment.

- Click OK twice.
- In the System View panel, double-click the site name in the Sites tree:



#### IQ5 Mode

If the IQ5 (to which you are connecting) already has a System Account set up, then you will now be asked to login using the appropriate credentials - go to step 22 on page 12.

Otherwise, you will be prompted to press the controller's service button to validate the connection and create system accounts - go to step 20.

### **Compatibility Mode**

You will be prompted to press the controller's service button to validate the connection and create a CNC user - go to step 21.

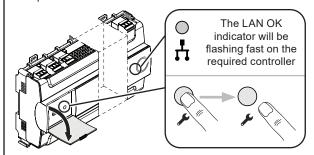


### Validate the Connection to IQ5 and Create System Accounts (IQ5 Mode Only)

If you attempt connection to an IQ5 that has no system accounts setup, then IQSET will display:



Press the service button > on the controller within the specified time limit:



 IQSET will now display a dialogue box for you to enter an Account Name, Password and Email address for the Admin system account.

Note: The email address is required in order to recover from a forgotten password.

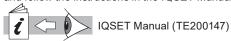
- Click to create the account.
- You will then be given the option to create a single Engineer system account - click Yes or No as required.

The new system account(s) will now be set up on the controller and synchronised with all other IQ5 controllers on the same Trend network, i.e. any IQ5 controller that has:

- the same Network Key and UDP Port set up, and
- no pre-existing system accounts.

This will take a few seconds to complete, after which time IQSET will display a login box - go to step 22 on page 12.

Note: To add further system accounts go to the System View in IQSET, right-click the site, select System Account Manager and follow the instructions in the IQSET Manual.



Remember to provide the credentials of the Admin system account plus the Network Key to the site owner to enable them to manage the system accounts. If the site owner does not have access to IQSET you may need to add another Admin system account for each system integrator working on the site.

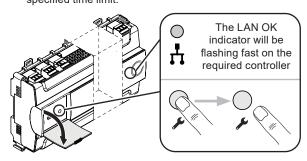


#### Validate the Connection to IQ5 and Create CNC User (Compatibility Mode Only)

If you attempt connection to an IQ5 that has no CNC user setup, then IQSET will display:



Press the service button \*\mathcal{F}\$ on the controller within the specified time limit:



- IQSET will now display a dialogue box that enables the IQ5's vCNC connections to be configured.
- Enter the CNC User module's name in the Name box.
- Enter the CNC User module's password in the Password box.
- Retype the password in the Retype Password box.
- Click Commit.

The CNC User module will now be set up on the controller This will take a few seconds to complete, after which time IQSET will display a login box - go to step 22 on page 12.



#### **Login to the Trend Network**

If you attempt connection to an IQ5 that has system accounts (IQ5 mode) or CNC Users (compatibility mode) setup, then IQSET will display:



- Enter the User Name and Password for a valid Admin or Engineer system account.
- Click OK.
- In the System View panel click the site name to refresh the site details (or right-click and select Refresh).



#### **Create Strategy in IQSET**

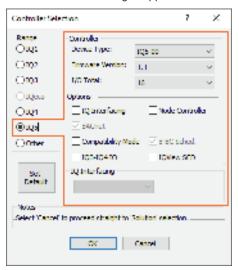
Create an IQSET project and create a strategy for each IQ5 controller.



- In IQSET click File > Open / New Project.
- Select Create New SET Project and click OK.
- Enter the required details and click **OK**.
- In the Project View panel add the required LANs by rightclicking the project name and selecting Insert Lan.
- Enter the required LAN Number and Label, and click OK.

Note: The LAN number should match the LAN(s) defined using IPTool in step 15.

 Add the required IQ5 controllers by right-clicking a LAN and selecting Insert Device > IQ Controller. The Controller Selection dialogue appears:



 Select IQ5 and select the required number of I/O points (I/O Total) and features (Options) and click OK.

Note: For Compatibility mode select the Compatibility Mode check box, for IQ5 mode leave it un-selected.

 In the Device Details dialogue enter the controller Address and Name, and click OK.

Note: The Address should match the node(s) defined using IPTool in step 15.

- In the Address Module dialogue enter any required settings and click OK.
- In the Sensor Type dialogue enter any required settings and click Exit.

#### Set up IO Modules (if installed)

- Right-click in the empty strategy page and select Device > I/O Setup.
- In the I/O Setup dialogue add and configure any IO Modules as required by following the instructions in the IQSET Manual.

#### Configure Remaining Strategy (as required)

 Create the remainder of the strategy by following the instructions in the IQSET Manual and IQ5 Configuration Manual.

### Local User Modules

**IQ5 Mode:** It is not necessary to create local User Modules for the IQ5 when it is operating in IQ5 Mode, unless these are required to control end users access to the web interface or the IQVIEW SCD (single controller display). All engineering access is controlled by the system accounts created in step 19.

 $\mbox{\bf IQ5}$  **Compatibility Mode:** Local User Modules control all access to the IQ5 and  $\mbox{\underline{MUST}}$  be created.



#### Set up IQ5 Feature Licencing

If any licensable features are required (e.g. additional IO points, NC or INT functionality) these must now be enabled.



See 'Licence IQ5 Features' in the IQSET Manual (TE200147)

- Ensure that an IQ5 with the same address and LAN number with the required options exists in the SET project see step 23.
- With IQSET connected (see step 19) and logged in (see step 22), go to System View.
- Right-click the site name in the Sites tree and select IQ5 Feature Licensor.
- Select the device(s) required and click to generate a Licence Request File and save it on the PC.
- · Login to the HBT Licensing Portal:

#### https://MyBuildings.honeywell.com

- Select Quick Cart and upload the License Request File.
- Add any additional details including the email address of the person requiring the licence, then checkout the order.

After the order has been processed an email will be sent to the specified email address. You will then need to...

- Download the Licence File from the Portal and save it.
- Using the IQ5 Feature Licensor click to import the Licence File.
- Select which device(s) to update.
- Click to update the device licences.

Note: If you are not connected to the same IQ5 vCNC that was used when creating the Licence Request File a warning will be displayed. If you are connected to the same site you can ignore the warning. If you are not connected to the same site connect using a different connection.



#### Set up NC Communication Mode (if the IQ5 is required to operate as node controller)

Note: The IQ5 must be licenced for NC mode.

- Using the Engineering PC/Laptop (see step 7) open a compatible web browser and access the IQ5 web interface using its IP Address or Hostname.
- If prompted, login using valid system account credentials.
- Select Modules > Networks to display the NC Configuration Wizard.



 Click required mode icon (see table), and if necessary specify any parameters, e.g. LAN number.

Note: If no icons appear, check that the IQ5 is configured and licensed for NC operation (see step 23 & 24).

- Click \*\*; the controller will now reboot.
- Set the communications channel on the MS/TP network module to the port the MS/TP network is connected to.

Mode Icon	Parameter Settin	s			
*	Ethernet Internetwork to to MS/TP LAN (defa				
-	Parameter	Setting			
100	BACNet MSTP LAN number	1, 4 to 9, 11 to 119			
	BACnet IP Disable Module	No = Enable ∕es = Disabl	-		
-	Current Loop Internetwork to MS/TP Lan				
1	Parameter	Notes	Notes		
	Lan number	1, 4 to 9,	1, 4 to 9, 11 to 119		
	BACnet IP	Can be d	Can be disabled		
	Ethernet Internetwork to Current Loop Lan				
(-)	Parameter	Notes	Notes		
44	Lan number	1, 4 to 9,	1, 4 to 9, 11 to 119		
	BACnet IP	Can be d	Can be disabled		
	BACnet MSTP	Can be e	Can be enabled		
	Ethernet Internetwork to Current Internetwork Note address no longer need be > 100.				
	Parameter	Notes	Notes		
	Lan number	1, 4 to 9,	11 to 119		
	BACnet IP	Can be d	isabled		
	BACnet MSTP	Can be e	Can be enabled		

Manual configuration of all parameters

(not recommended)



#### Configure or Disable the Web Server (if required)

The IQ5's web server enables users to access the web interface for viewing/changing module parameters (including setting up NC mode - see step 25) or interacting with optional GraphIQ pages via a web browser.



Connection to the IQ5's web server can be made via HTTP and/or HTTPS protocol and both these ports are enabled by default.

Note: Where HTTPS is used it will be necessary to configure SSL certificates (see the IQ5 Configuration Manual).

If access to the web interface is not required it is recommended that both ports are disabled for security. For example:

- Using the Engineering PC/Laptop (see step 7) open a compatible web browser and access the IQ5 web interface using its IP Address or Hostname.
- If prompted, login using valid system account credentials.
- Select Modules > Networks.
- Select n1 (Ethernet IP).
- Set the Web Server Port Number and/or Secure Web Server Port Number parameters to 0 to disable the port.
- Click



#### Set up Current Loop Baud Rate

If the IQ5 is to connect to a Trend current loop network baud rate for the current loop network must be specified. The IQ5 will automatically detect the baud rate being used on the network and set itself accordingly. On systems where there is only IQ5s and IQ4s on the current loop network, the controllers will decide amongst themselves what baud rate to use; this may not be the one that is required. In this situation it is necessary for one controller to be set to a specific baud rate using IQSET's IQTool Monitor Applet to ensure the other controllers select the required baud rate.



IQTool Monitor Applet Manual (TE201298)



### **Download Strategy to IQ5 Controller**

Use IQSET to download the strategy to the controller(s).



For a single controller...

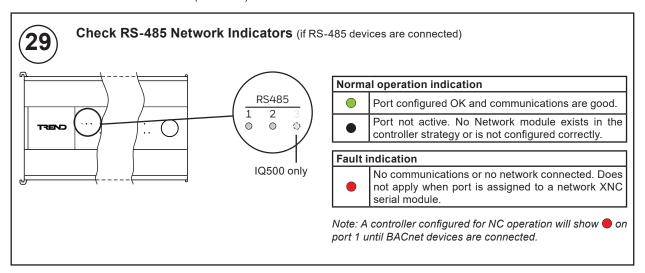
- Select the appropriate controller/strategy in the Project View
- From the Strategy menu select Create Data File.
- In the System View select the appropriate controller.
- Right-click the controller and select Send File to Device.
- In the File Download dialogue box check that the correct file is <u>sele</u>cted the in Transfer Directory field.
- Click to start the download.

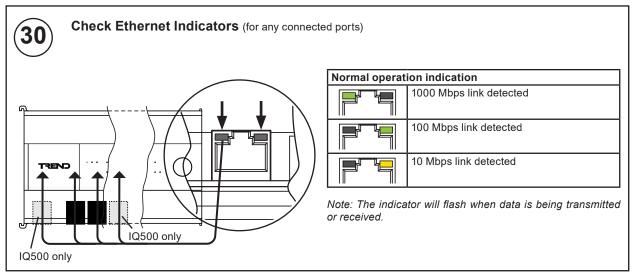
For other methods or for downloading to multiple controllers please refer to the IQSET Manual

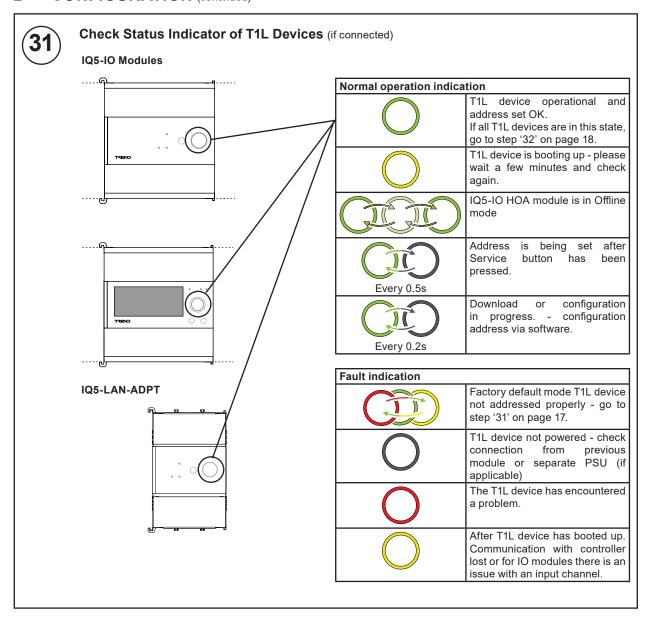
**IMPORTANT:** The controller's date and time <u>MUST</u> be set correctly to ensure that the controller's security certificates can be correctly validated. Communications issues will occur if the security certificates are not valid. This can be done by selecting the option to set the controller's time is selected when downloading the strategy.

Note: If the strategy uses an NTP server to set the IQ5's time and date, synchronisation will only occur if the IQ5's time and the server's time are within 49 days of each other.

Note: The controller's date and time may be set up from a controller configured as timemaster.









#### Set the Address of an I/O Module or Current Loop LAN Adapter

The IQ5 controller will automatically attempt to match each physical device (I/O module or Current Loop LAN Adapter) with its corresponding strategy I/O module and set its address accordingly.

However, the controller will be unable to set the address if:

- there is more than one unaddressed physical device of the same type.
- there is more than one unaddressed strategy module of the same type, or
- there is no corresponding strategy module in the strategy.

Should any of the above situations arise it will be necessary to set the address of any affected device using either of the following methods.

Method 1: Use the IQ Tool Soft Addresser Applet in IQSET.



IQ Tool Soft Addresser Applet Manual (TE201356)

 Use the applet to assign the physical device to the appropriate strategy I/O module.

Method 2: Use the controller web interface.



> IQ5 User Guide (TE201490)

- · Login to the controller's web interface.
- Access the I/O Module page and enter addresses as required.

Note: If a T1L device is not visible in either the applet or the web interface, it may be because it has already be used with another controller. A T1L device becomes bound to the first controller it connects to over the T1L bus. If connecting the module to a different controller it will need to be reset as shown in section 7 on page 24.

### Identifying a Module using the 'Wink' Function (if required)

To help identify a specific module it can be placed in 'wink' mode, either from the module itself or set up tool. While in wink mode the module's service indicator | indicato

Method 1: Use the module's service button...

- Press the module's service button 🎤 briefly (<1 second).
- The module's service indicator will flash for approximately 1 minute, showing that the device is in wink mode.
- Open either the IQ Tool Soft Addresser Applet or the controller's web interface (see Method 2 and 3).
- Any module in wink mode will have its Wink parameter set to 'On'.

Method 2: Use the IQ Tool Soft Addresser Applet in IQSET.



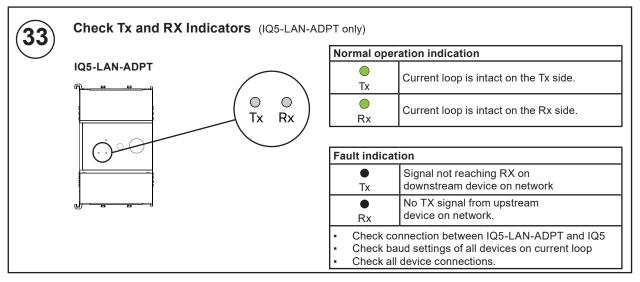
IQ Tool Soft Addresser Applet Manual (TE201356)

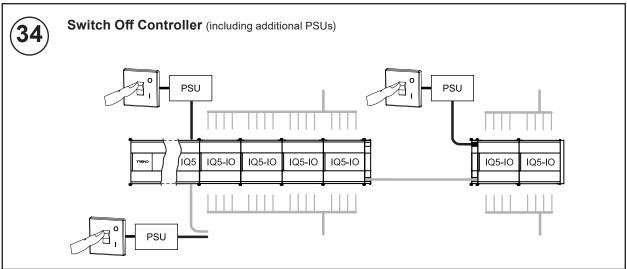
- Click the \_\_\_\_\_ button for the appropriate module.
- The button background will flash green and the module's service indicator will flash, showing that the device is in wink mode.
- Click the button again to turn off wink mode.

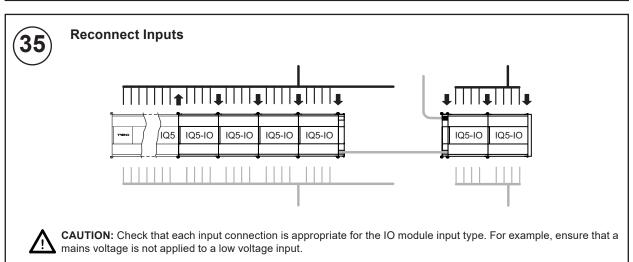
Method 3: Use the controller web interface.

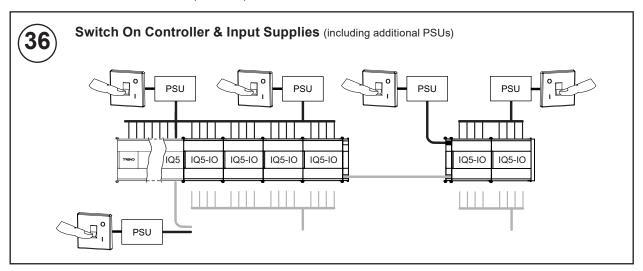


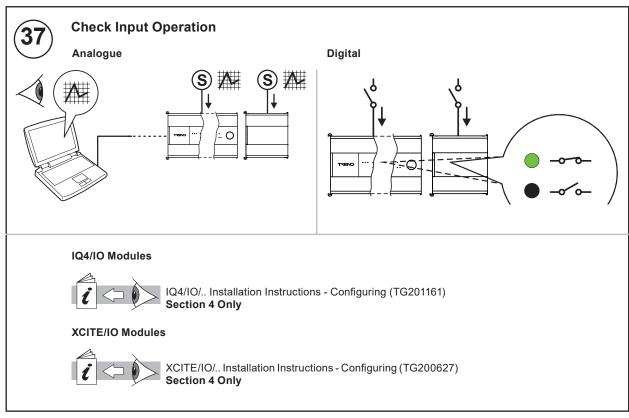
- Login to the controller's web interface.
- Access the I/O Module page.
- In the Wink column set the parameter to 'On' for the appropriate module.
- The module's service indicator indicator will flash, showing that the device is in wink mode. It will continue to flash until the corresponding Wink parameter is set back to 'Off'.

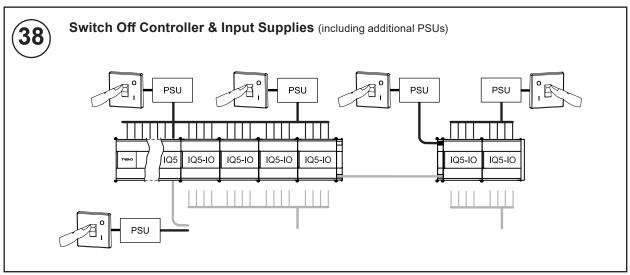


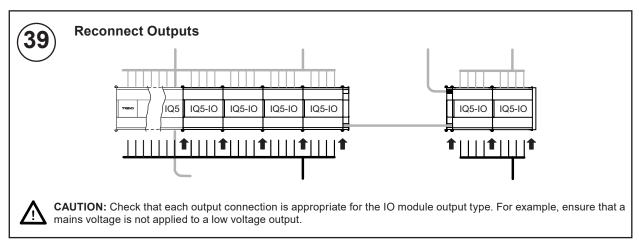


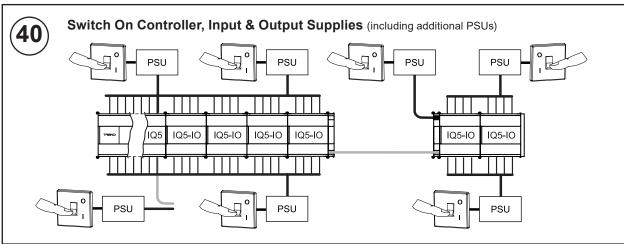


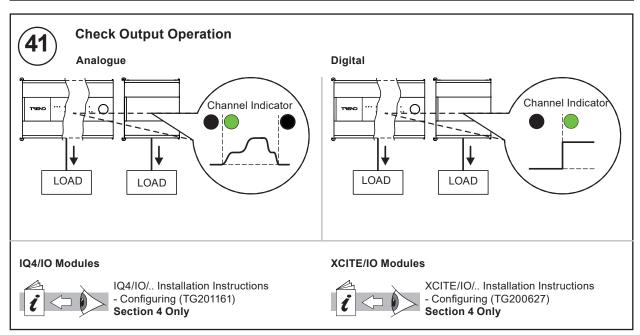














### **Backup Strategy**

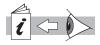
It is good practice to upload the strategy from each controller into IQSET to create a backup.



If required, you can also compare this uploaded strategy with that held in your project and check for any differences.



#### Install Supervisors or Displays (if required)

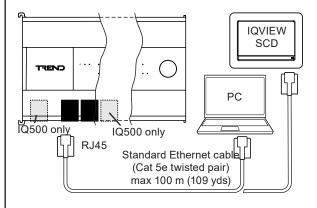


If a supervisor or local display is required, install these now following the appropriate installation instructions and the guidance notes below. Otherwise go to step 43 on page 22.

Connection Method	Suitable for				
	IP Tool	IQSET	Supervisor (e.g. IQVISION)	Web Interface (e.g. IQVIEW SCD for IQ5)	
Direct via Ethernet Port	✓	√*	√*	✓	
Via Ethernet Network	✓	√*	<b>√</b> *	✓	
Direct via USB Engineering Port	×	✓	×	×	

<sup>\*</sup> connection requires a vCNC to be configured on the target controller.

#### **Direct Connection via Ethernet Port**

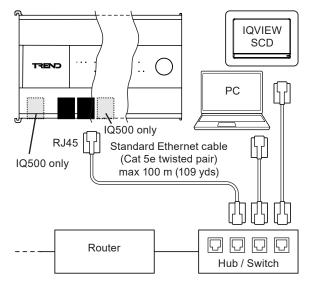


 To make a connection with IQSET or supervisor ensure that a vCNC is available in a Trend device on the same Ethernet Trend network and connect to the vCNC as described in the supplied documentation.

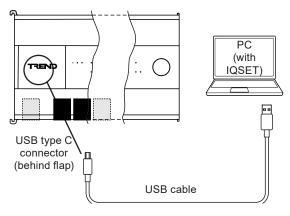
Note: If connecting with IP Tool, the PC should be on the same Ethernet segment as the IQ5.

- To make a connection with a web browser run the web browser on the PC and access the IQ5's IP address or host name.
- To make a connection with an IQVIEW SCD, install the IQVIEW SCD application on the controller, then configure the display device with the URL of the IQ5 controller. For full details see IQVIEW Single Controller Display for IQ5 Manual (TE201504).

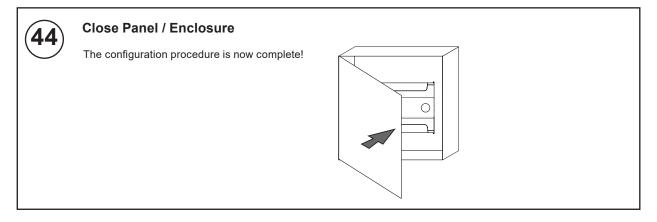
#### **Connection via Ethernet Network**



#### **Direct Connection via USB Engineering Port**



This method is only suitable for a temporary connection with IQSET during system commissioning or fault finding.



#### 3 RESET IQ5 CONTROLLER TO FACTORY DEFAULTS

A factory reset will erase the strategy and reboot the controller into its default configuration.



#### Isolate Power and Disconnect All I/O

Follow steps 1, 2, 4, 8 and 9 (on pages 1 to 4) to:

- Isolate Power,
- Open Panel,
- Disconnect All I/O,
- Unplug all Ethernet cables. Any RS-485 networks may be left connected,
- Switch on power to IQ5 only,
- · Wait for controller to settle.



#### **Perform the Reset**

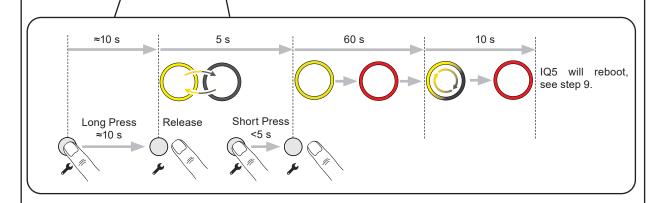
Press and hold down the service button  $\checkmark$  (located behind the drop down flap) until the ring indicator flashes yellow, then release the button. To initiate the reset press the button again while the indicator is still flashing.

The reset process may take up to several minutes depending on the controller type. Do not remove power to the controller until the process has completed.

While the controller is erasing the strategy, the ring indicator will remain yellow and appear to 'rotate'. When the reset is complete the controller will reboot as shown in step 9 on page 4.

The strategy, user modules (passwords, etc), alarm logs, and plots records are cleared down, and all other parameters will be returned to their default settings as shown in step 15 on page 8.

Note: Time and date are left at their current values, and the license is not affected by the reset.





### **Re-configure the Controller**

Go to step 15

### 4 RESET A T1L DEVICE TO FACTORY DEFAULTS

A factory reset will erase all settings and reboot the device into its default configuration.



### Isolate Power and Disconnect all I/O from the Device

Follow steps 1, 2, 4, 8 and 9 (on pages 1 to 4) to:

- Isolate any power supplies used by the device inputs or outputs,
- Open panel,
- Disconnect all I/O from the device,
- Isolate the device power supply.



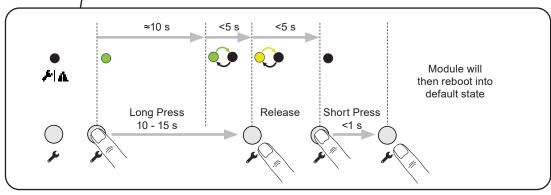
#### **Perform the Reset**

With the device powered up, use the service button to initiate the reset process as follows:

The reset process will only take a few seconds depending on the module type. Do not remove power to the module until the process has completed.

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When the reset is complete the module will reboot and the controller will attempt to re-address the module as shown in





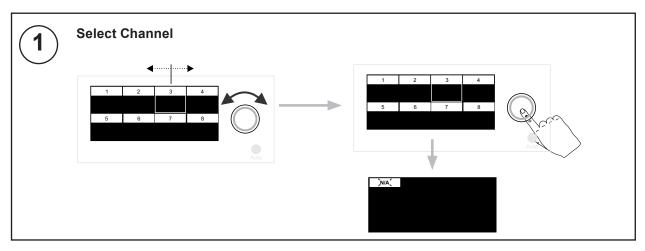
#### **Reconnect Inputs & Outputs and Check Operation**

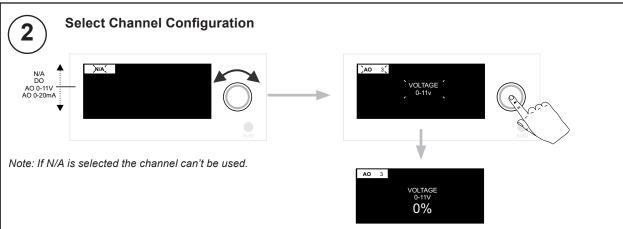
Follow the guidance from step 30 on page 16, through to step '43' on page 22.

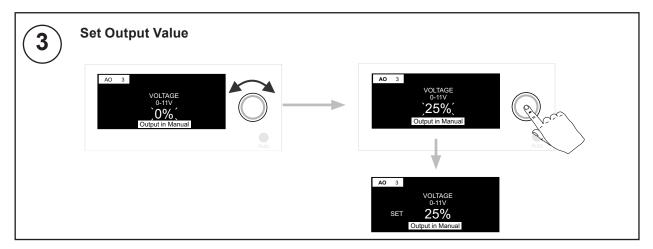
### 5 MANUAL CHANNEL CONFIGURATION

### 5.1 Set Channel Type and Value

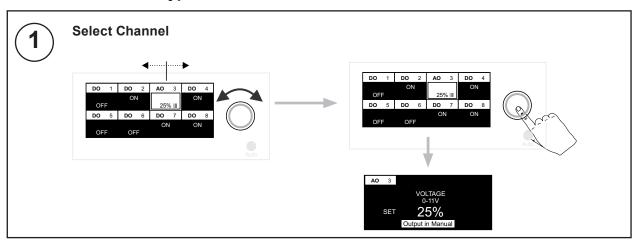
When IQ5-IO HOA modules are in offline mode the channels must be configured to match the connected I/O and the required value set.

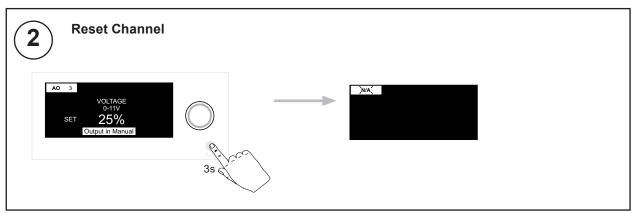




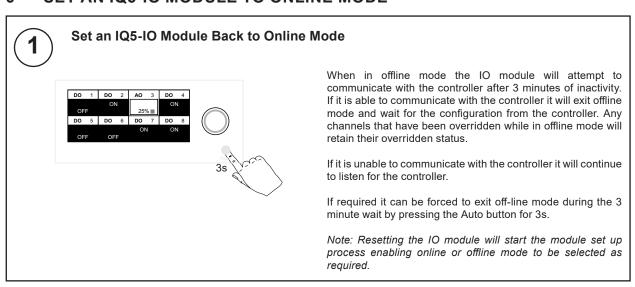


### 5.2 Reset Channel Type





### 6 SET AN IQ5-IO MODULE TO ONLINE MODE



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