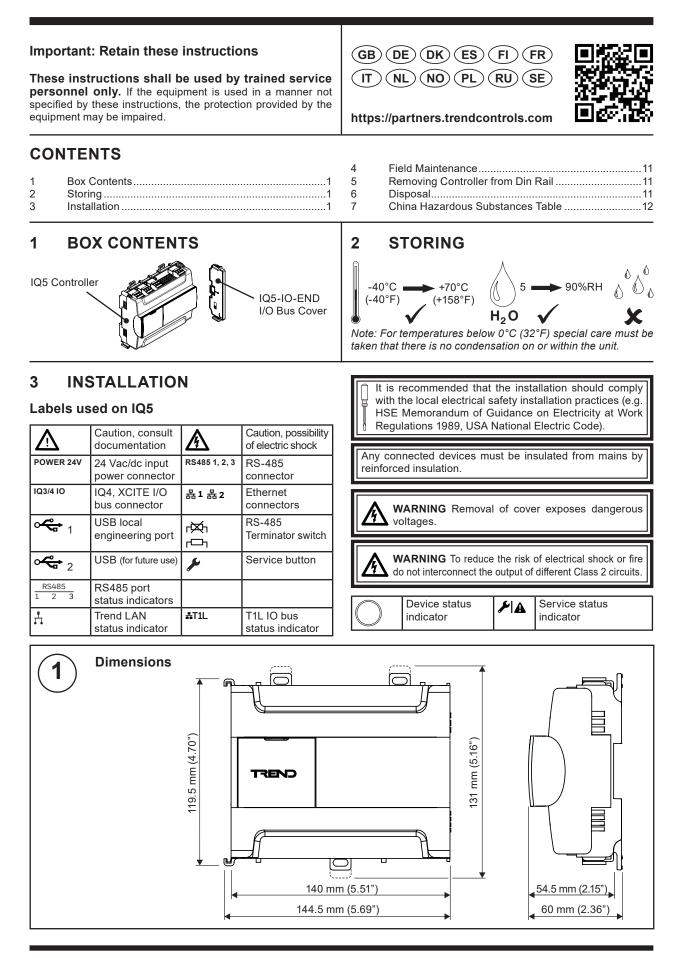
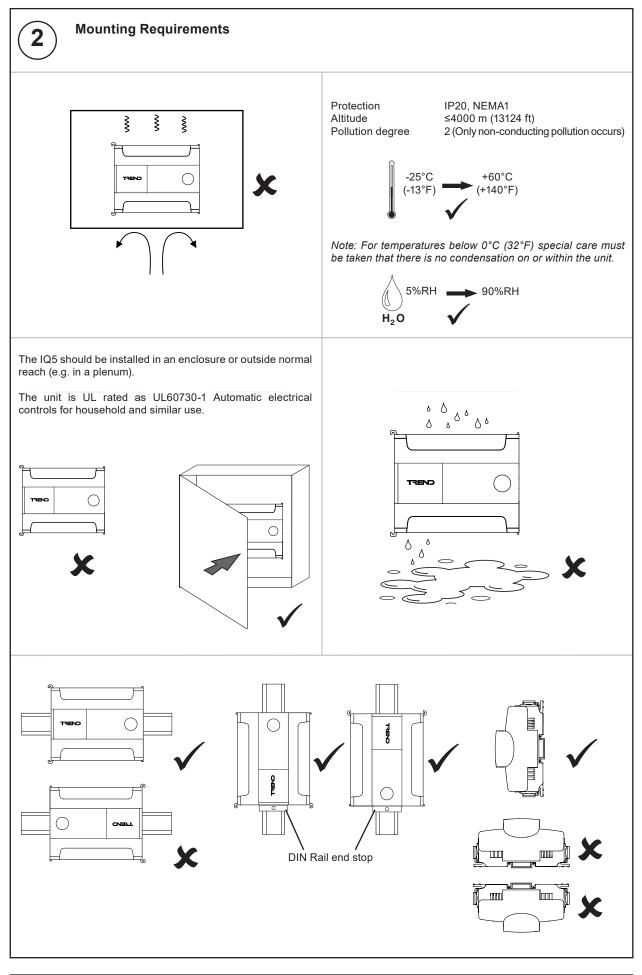
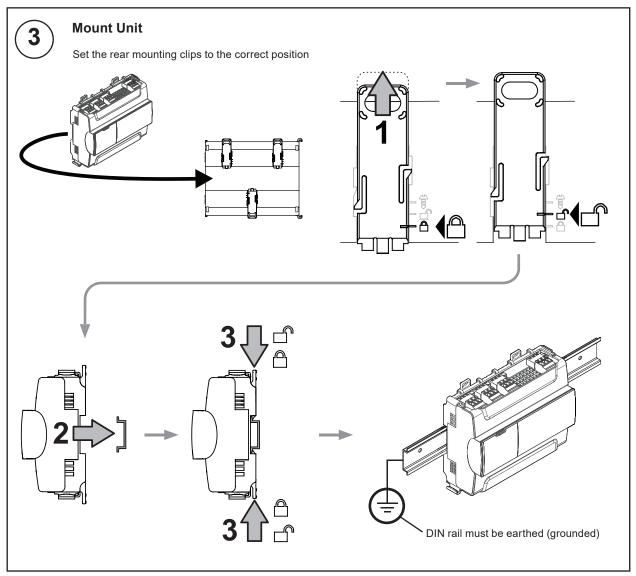
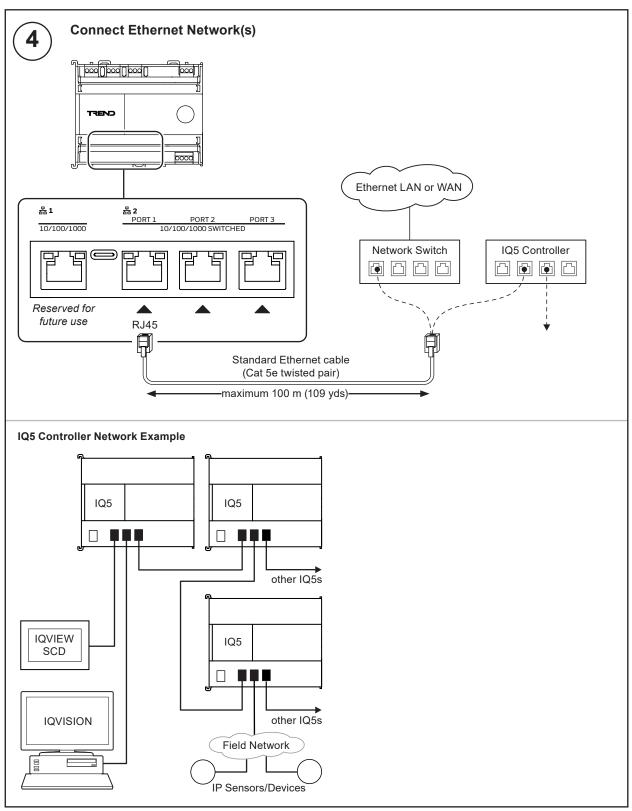


Installation Instructions - Mounting IQ5 Controller

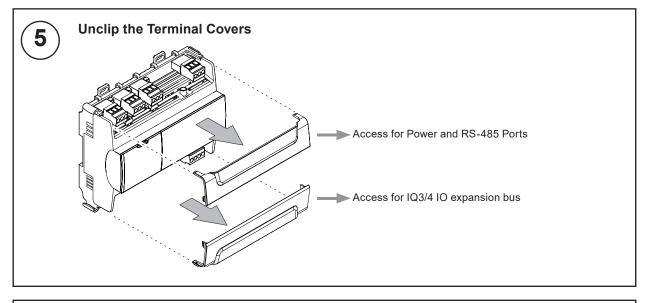


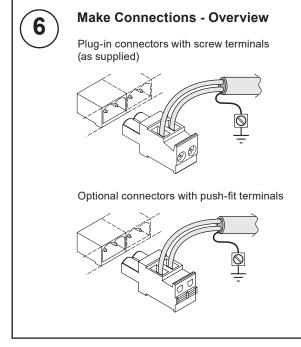






4



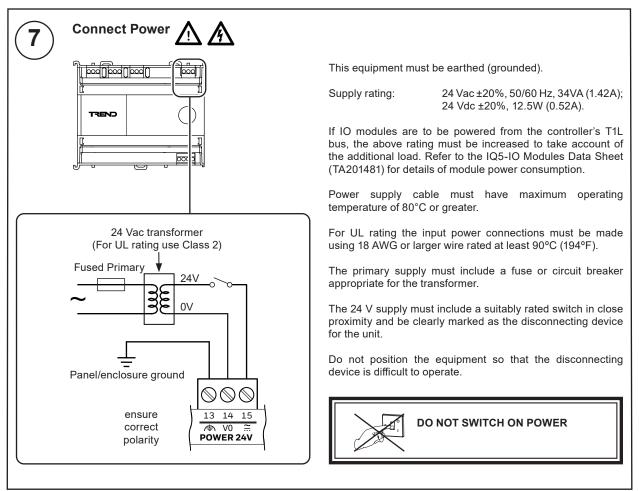


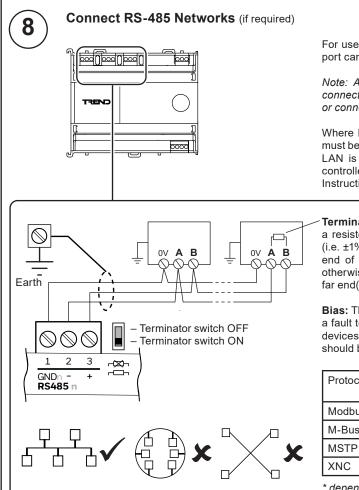
Terminal size: Terminal torque: 0.5 to 2.5 mm² (20 to 14 AWG). 0.45 to 0.62 Nm (4 to 5.5 lb-in).

Note: For UL rating use 22 to 14 AWG - Cu only cable.

Connection Type	Go to step		
Power	7		
RS-485 Ports	8		
T1L Bus	9		
IQ3/4 IO Bus	10		

Note: It is recommended that wire ends are terminated using suitable ferrules, especially when using stranded wire with push-fit terminals.





The GND/0V terminal **MUST** be connected on all devices.

It is not recommended to use the screen as the $\ensuremath{\mathsf{OV}}$ connection.

Earthing (Grounding) & Isolation Requirements

If the IQ5 and other units on the bus are in the same cabinet using the same power supply, each device must have a good physical earth (ground) connection.

If the IQ5 and other units on the bus are in different cabinets or use different power supplies (e.g. different UPS units), the cabinets must be isolated from each other.

If the bus is likely to suffer from surge and grounding problems, surge protection should be added. The isolator should be connected to the earth (ground) of the nearest device, the 0V of the isolator and the surge protector should be connected together, and earth (ground) of the surge protector's exposed side (e.g. backbone bus) should be connected as directly as possible to the surge ground or earth bond. Ensure that terminators are fitted where indicated. For use with Modbus, M-Bus, and/or XNC functionality. One port can also be used for an MSTP LAN of IQECOs.

Note: An appropriate converter will be required to enable connection to an RS-232 M-Bus network (e.g. using a PW60) or connection to an RS-485 4-wire network.

Where Modbus, M-Bus or XNC functionality is required this must be enabled by installing an INT licence. Where an MSTP LAN is required an NC licence must be installed and the controller operated in NC mode (see IQ5, IQ5-IO Installation Instructions - Configuration (TG201483).

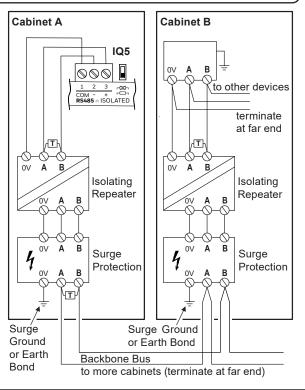
Termination: The bus must be terminated at each end with a resistor matched to the cable characteristic impedance (i.e. ±1%, ¼ Watt, range 100 to 130 Ω). If the IQ5 is at one end of a 120 Ω cable, switch ON its built-in terminator, otherwise switch it OFF. Termination must be applied at the far end(s) of the cable.

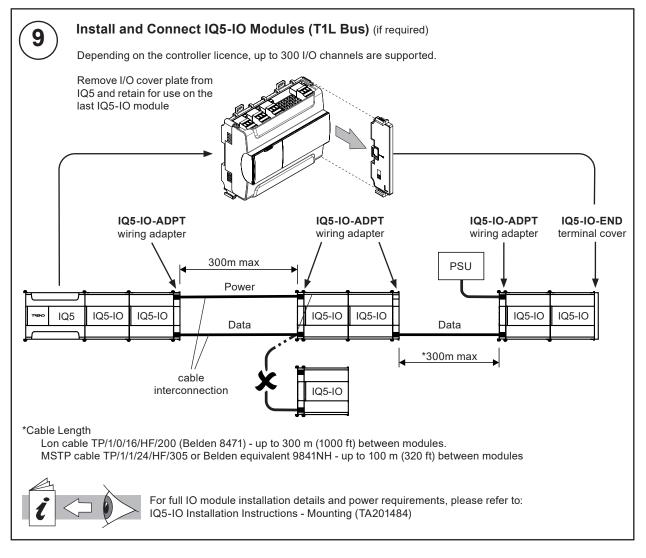
Bias: The IQ5 does not need the bus to be biased as it has a fault tolerant transceiver and applies a small bias. Other devices on the bus may require biasing, in which case it should be provided at one point on the bus.

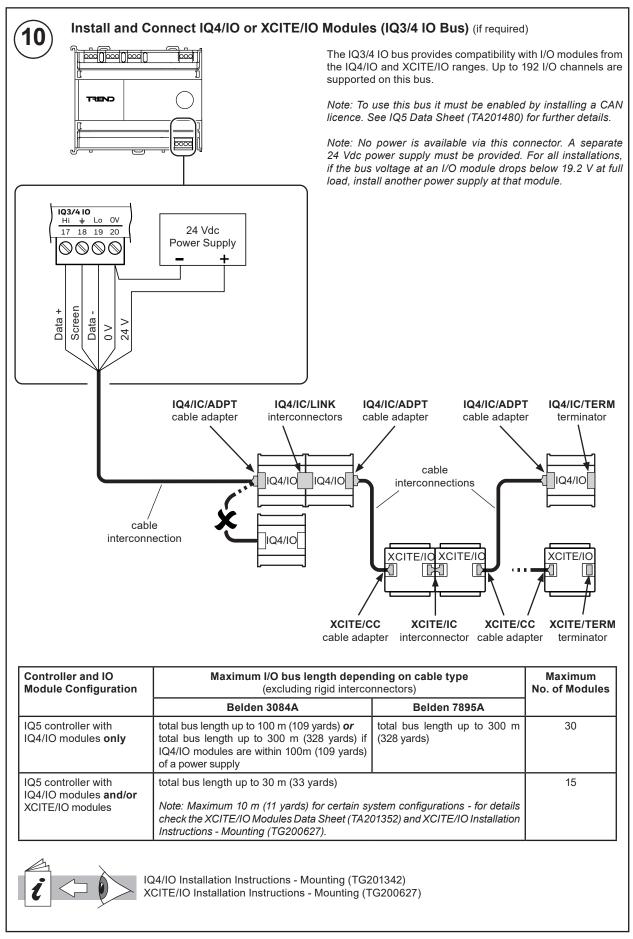
Protocol	Device Count	Cable Type	Max Length* metres (feet)	
Modbus	32**	120 Ω twisted pair	900 (2953)	
M-Bus	60	120 Ω twisted pair	1000 (3280)	
MSTP	30	120 Ω twisted pair	1200 (4000)	
XNC	32	depends on chosen application		

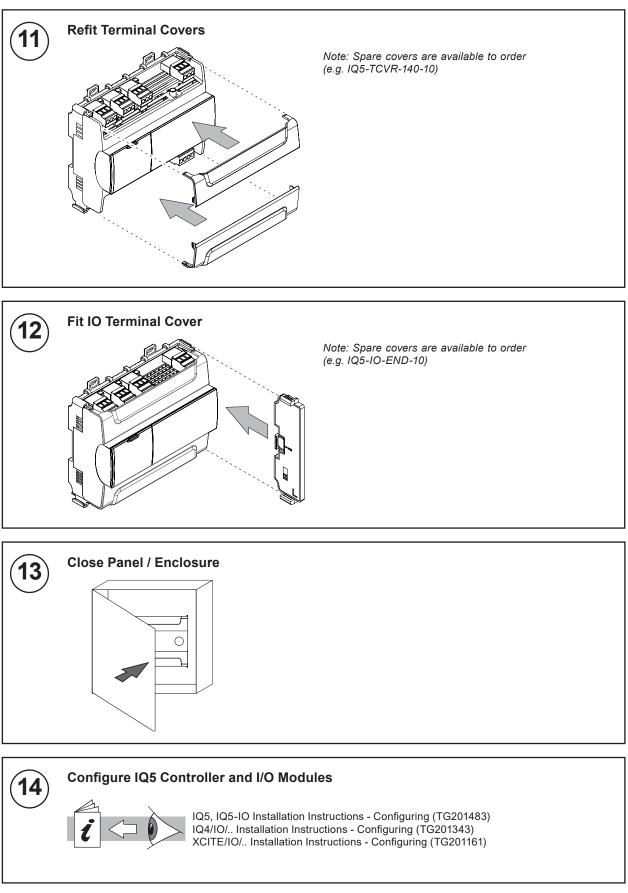
* dependent on cable specification and baud rate. ** up to 32 unit loads.

Cable screening is recommended for reliable operation in electrically noisy environments. The cable screen should be connected to earth at one point.







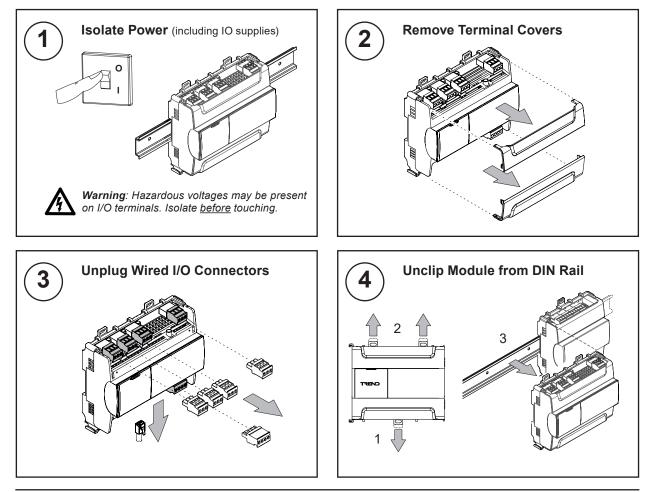


The IQ5 require no routine maintenance.



WARNING: Contains no serviceable parts. Do not attempt to open the unit. Failure to comply may cause damage to the unit.

5 REMOVING CONTROLLER FROM DIN RAIL



6 DISPOSAL

WEEE Directive:

- At the end of their useful life the packaging and product should be disposed of by a suitable recycling centre. Do not dispose of with normal household waste.
- Do not dispose of with normal nousehold waste. Do not burn.

7 CHINA HAZARDOUS SUBSTANCES TABLE

	有害物质 Hazardous Substances							
部件名称 Component Name	铅 (Pb) Lead (Pb)	汞 (Hg) Mercury (Hg)	镉 (Cd) Cadmium (Cd)	六价铬 (Cr6+) Chromium VI Compounds (Cr6+)	多溴联苯 (PBB) Polybrominated Biphenyls (PBB)	多溴二苯醚 (PBDE) Polybrominated Diphenyl Ethers (PBDE)		
电缆 Cables	х	0	х	0	0	0		
印刷线路板总成 PCB Assembly	х	0	х	0	0	0		
连接器 Connectors	х	0	х	0	0	0		
塑料外壳 Enclosures (Plastic)	0	0	0	0	0	0		
金属外壳 Enclosures (Metal)	х	0	0	0	0	0		
本表格依据 SJ/T 11364 的规定编制。 This table is prepared in accordance with the provisions of SJ/T 11364.								
O 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。 Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.								
X 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。 Indicates that said hazardous substance contained in all of the homogeneous materials for this part is above the limit requirement of GB/T 26572.								

未列入表内的其他部件,皆不含任何超出限量要求的限制使用物质。

All other components, not listed in the table, do not contain restricted substances above the threshold level

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