

rotork® Controls



Industrial Ethernet is becoming an increasingly popular choice for connecting industrial equipment together. It is also being used more frequently to connect field devices back to the control room.

Rotork has developed a solution that allows a Modbus TCP or Profinet connection to its IQ and CK range of actuators.

Modbus TCP is an open standard that allows Modbus messages to be sent over a TCP/IP network. The Modbus TCP solution also incorporates a built in web server that allows individual actuators to have their own local webpage, complete with status and diagnostic data.

Profinet is an industry technical standard developed by the 'Profibus and Profinet International' organization.

Features and Benefits

- Simple integration with existing Ethernet systems
- Uses Rotork's existing Modbus RTU database
- Bespoke webpages can be created for each Modbus TCP actuator
- Full status, diagnostics and control can be performed
- Supports 10/100 Mbps connections
- Uses an RJ45 connection for easy installation and site wiring
- Webpages feature built-in, customisable datalogging and alarm functions for Modbus TCP asset management

Ethernet Actuator

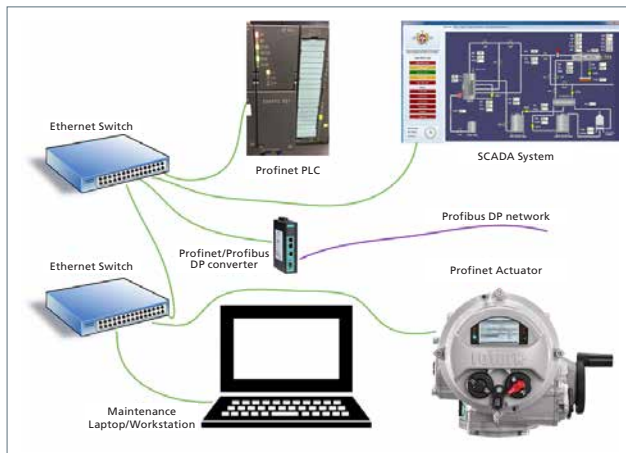
Profinet and Modbus TCP for CK range and IQ range actuators

Specification

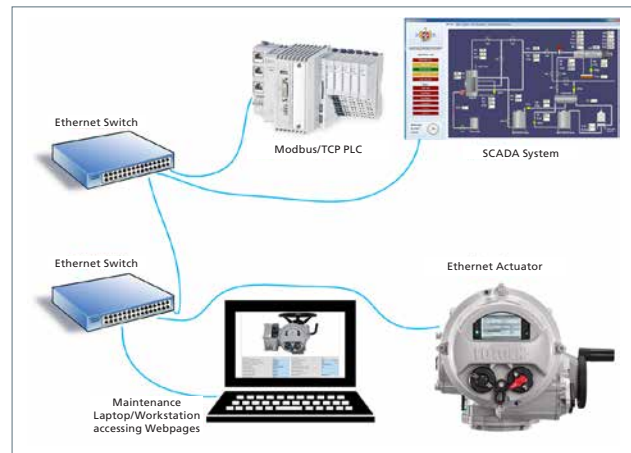
Type	Specification
Enclosure Non-Hazardous	Up to IP66/68 (20 m, 10 days)
Temperature Range	-30 to +70 °C (-22 to +158 °F)
Power Supply	Actuator derived 24 VDC
Mounting Options	Actuator mounted within deep cover
Coating	Polyester powder coating



Example of webpage



Example Profinet setup



Example Modbus TCP setup

	Device	Description	Class	Severity	Status	Acknowledge
1	Address 01	Status 0 - Thermostat Tripped	1	Major	Inactive	<input type="button" value="acknowledge"/>
2	Address 01	Status 0 - Available for remote control	1	Warning	Inactive	<input type="button" value="acknowledge"/>
3	Address 01	Status 0 - Valve obstructed or jammed	1	Major	Inactive	<input type="button" value="acknowledge"/>
4	Address 01	status 1 - Battery Status	1	Indeterminate	Inactive	<input type="button" value="acknowledge"/>
5	Address 02	Status 0 - Thermostat Tripped	1	Indeterminate	Inactive	<input type="button" value="acknowledge"/>
6	Address 02	Status 0 - Available for remote control	1	Indeterminate	Present	<input type="button" value="acknowledge"/>
7	Address 02	Status 0 - Valve obstructed or jammed	1	Indeterminate	Inactive	<input type="button" value="acknowledge"/>
8	Address 02	status 1 - Battery Status	1	Indeterminate	Inactive	<input type="button" value="acknowledge"/>

based on Netbiter® technology

Example of Modbus TCP alarm logging

A full listing of the Rotork sales and service network is available on our website.

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