

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

Туре	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



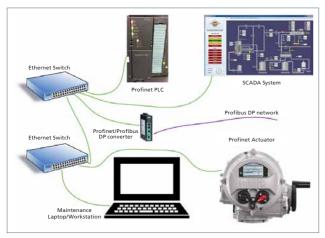
Example of webpage

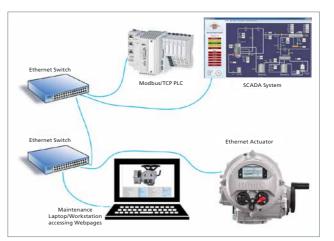
Keeping the World Flowing



Ethernet Actuator

Profinet and Modbus TCP for CK range and IQ 3rd generation actuators





Example Profinet setup

Example Modbus TCP setup

Logged in as: Administrator Systems Workshop 🔒 Logou							
Select page	 Status Devices 	Alarm Log Configuration Setup	About				
Alarm Status	Alarm History						
Alarm Sta	tue.						
Alarin Sta	Device	Description	Class	Severity	Status	Acknowledge	
1	Address 01	Status 0 - Thermostat Tripped	1	Major	Inactive	acknowledge	
2	Address 01	Status 0 - Available for remote contro	1	Warning	Inactive	acknowledge	
3	Address 01	Status 0 - Valve obstructed or jamme	1 1	Major	Inactive	acknowledge	
4	Address 01	status 1 - Battery Status	1	Indeterminate	Inactive	acknowledge	
5	Address 02	Status O - Thermostat Tripped	1	Indeterminate	Inactive	acknowledge	
6	Address 02	Status 0 - Available for remote contro	1	Indeterminate	Present	acknowledge	
7	Address 02	Status 0 - Valve obstructed or jamme	1 1	Indeterminate	Inactive	acknowledge	
8	Address 02	status 1 - Battery Status	1	Indeterminate	Inactive	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.

www.rotork.com

PUB002-116-00 Issue 05/18

As part of a process of on-going product development, Rotork reserves the right to amend and change specifications without prior notice. Published data may be subject to change. For the very latest version release, visit our website at www.rotork.com The name Rotork is a registered trademark. Rotork recognises all registered trademarks. Published and produced in the UK by Rotork Controls Limited. POWTG0518

tel fax

Corporate Headquarters Rotork plc

+44 (0)1225 733200 +44 (0)1225 333467

Controls Electric Actuators and Control Systems

Fluid Systems

Gears

Instruments Precision Control and Indication

Site Services Projects, Services and Retrofit

Rotork is a corporate member of the Institute of Asset Management

