

# rotork®

## DTM Solutions



Setup, parameterisation, monitoring,  
and asset management information

### Redefining Flow Control

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Rotork is the global market leader in valve automation and flow control. Our products and services are helping organisations around the world to improve efficiency, assure safety and protect the environment.

We strive always for technical excellence, innovation and the highest quality standards in everything we do. As a result, our people and products remain at the forefront of flow control technology.

Uncompromising reliability is a feature of our entire product range, from our flagship electric actuator range through to our pneumatic, hydraulic and electro-hydraulic actuators, as well as instruments, gear boxes and valve accessories.

Rotork is committed to providing first class support to each client throughout the whole life of their plant, from initial site surveys to installation, maintenance, audits and repair. From our network of national and international offices, our engineers work around the clock to maintain our position of trust.

**Rotork. Redefining flow control.**

## Product Overview

A Device Type Manager (DTM) is a piece of software supplied by an equipment manufacturer designed to be used within another piece of software called a Field Device Tool (FDT) Container. Many DTMs can be loaded into customers' FDT Container programmes and provide a single point of access to a variety of device setup, parameterisation, monitoring, and asset management information.

The ability to load multiple DTMs into an FDT Container allows support for not only different device types supplied by different manufacturers, but also a variety of different network types.

A graphical interface that follows the FDT Group Style Guide results in a powerful easy to use solution for the customer. Rotork has responded to existing and expected future customer demand by implementing a DTM solution. This complements other technologies such as EDDL to give customers greater choice.

The Rotork DTM automatically adjusts its behaviour and available data depending on the type of actuator selected, version of Profibus software installed in the connected actuator and if online or offline modes are selected.

The Rotork DTM is an industry standard solution in a competitive market.



# Enhanced Rotork Device Type Manager

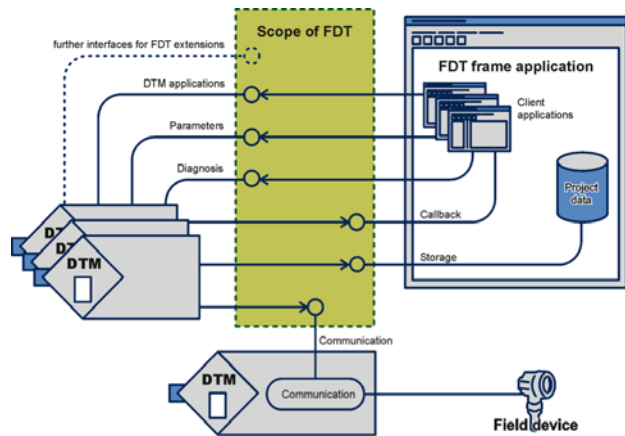
In response to customer demand, Rotork has developed a Profibus Device Type Manager (DTM), for the enhancement of commissioning and asset management across a wide range of actuators in the Rotork range, including IQ, CVA, ROMpak, SI and EH.

The Rotork Profibus DTM works with Field Device Tool (FDT) Technology to provide a standard interface independent of the software environment of either the device or host system. End users have a single point to access and manage data from multiple networks using different protocols and containing equipment from multiple vendors.

Rotork is a member of the FDT Group and is committed to continually improving and developing the capabilities of this technology to provide customers with the latest capabilities.

Interoperability testing with various manufacturers including ABB, Endress+Hauser, Honeywell, Ifak, M&M Software, the Phoenix Contact Group and Yokogawa ensures optimum operation of the Rotork Profibus DTM in a wide variety of applications.

In addition to configuration, parameterisation and graphing for all supported actuator types, the enhanced DTM includes features such as detecting connection of the latest generation of IQ *Pro* actuators and automatic display of extended diagnostic and operational data. Downloading of logged data and EEPROM configuration setting is now also possible with the latest generation of IQ *Pro* actuators.

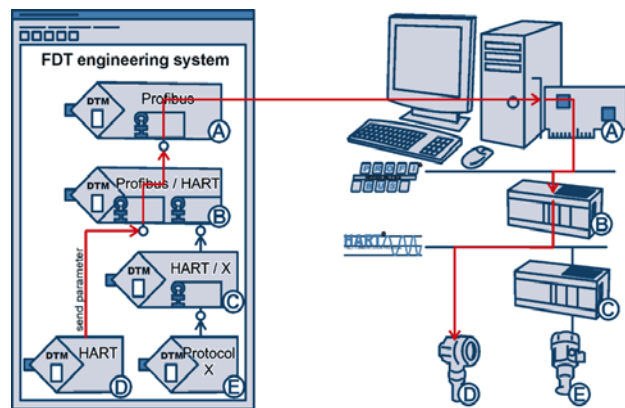


## Profibus DTM

- Device Type Manager
- Represents the device
- Supplied by device vendor

## Frame Application

- Launches the DTM
- Supplied as part of the host system
- Manages the device instances



# Design Features

## Asset Management

The Rotork Profibus DTM provides real time information about actuators connected to the Profibus network. This allows settings to be checked, recorded and printed out for record keeping. This is useful for:

- Backup Settings
- Historical Datalog comparison
- Information/ Data previously unavailable over a network

## Predictive Diagnostics

The Rotork Profibus DTM provides quick and simple access to the wealth of information available from Rotork actuators. This includes information such as total number of movements both closed and open, historical and current torque profiling for the apparatus the actuator is connected to and graphical information on actuator temperature that can all be used for optimising preventative maintenance schedules.

The ability to monitor actuator conditions and performance remotely can be invaluable as actuators can be located in remote, difficult to access and hazardous areas, so the ability to easily monitor many parameters remotely can be invaluable.



## Rotork Profibus DTM and IQ-Insight

Actuator datalogger and configuration files that have been remotely downloaded using the DTM can be reviewed and analysed using Rotork's existing IQ InSight software, available to download free of charge from the Rotork website.

## PC tools - IQ-Insight - Pocket-Insight

IQ-Insight PC software is a graphical user interface allowing actuator data logger information to be reviewed and analysed. Set-up and configuration data can be reviewed, analysed and reconfigured. This visually interactive application runs under Microsoft Windows™ operating systems.

Intuitive controls make analysing actuator data simple and fast. Laptop PCs with an IrDA™ interface running IQ-Insight can be directly connected to an actuator located in the field to allow set-up, configuration and analysis. Alternatively, data can be uploaded from the actuator and later downloaded to a PC by using a PDA running IQ Pocket-Insight. IQ-Insight and Pocket-Insight are available to download free from the Rotork website.

Rotork Infra-Red Setting tools are approved for hazardous area use and can also be used to download multiple actuator configuration and datalogger information sets from actuators. However the ability to use the DTM to download this data makes this operation even simpler, more convenient and cost effective.



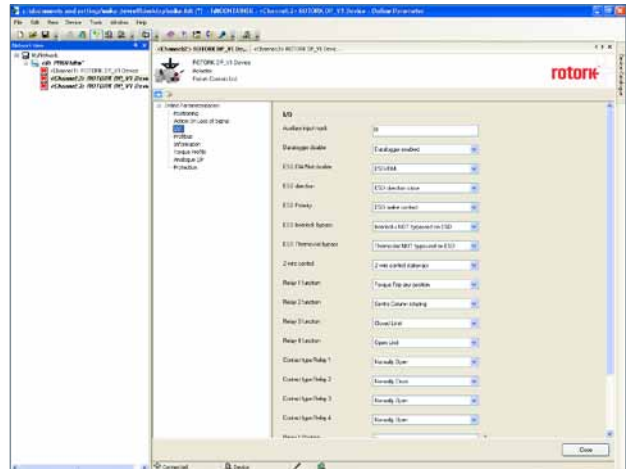
IQ-Insight PC software screenshots

# Design Features

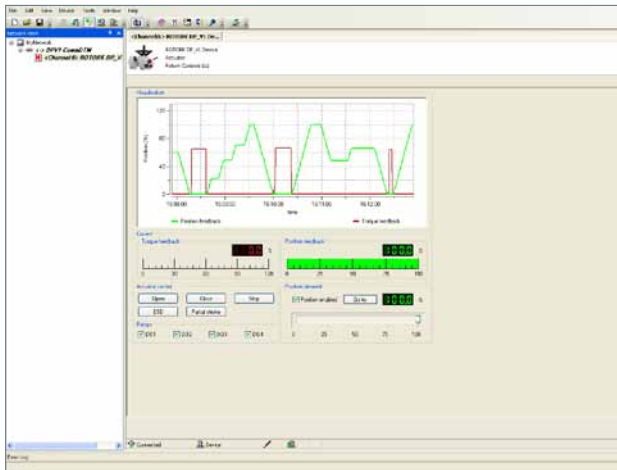
## FDT Containers

Field Device Tool (FDT) Containers are the software programs used to load manufacturers' DTMs. It can be thought of in a similar way to how printer drivers that are supplied by the manufacturer of the equipment are provided for the customer to load into their own operating system, enabling the printer to exist alongside multiple other devices from other manufacturers. In this case the printer driver is the DTM and the operating system is the FDT Container.

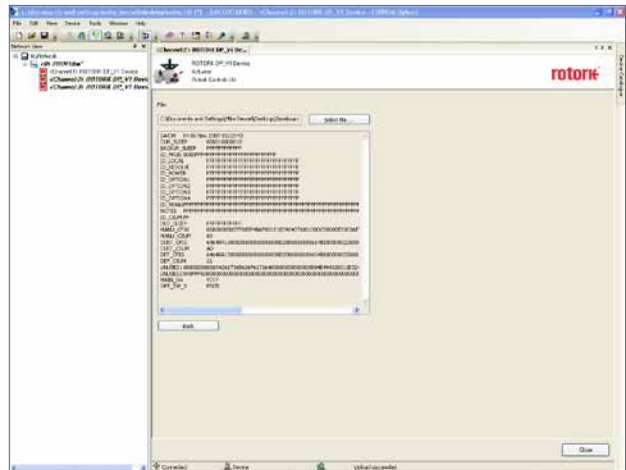
A growing list of companies provide FDT Container software, many of which are free of charge such as PACTware™ and the M&M FDT Container software. FDT Containers exist for a variety of operating systems, standard Windows operating systems and also proprietary Distributed Control Systems.



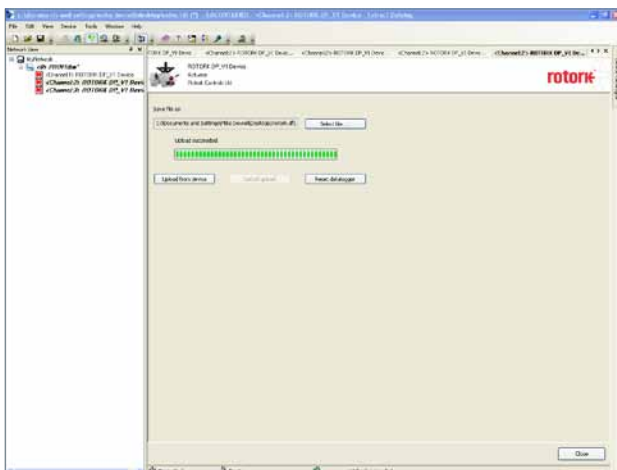
Actuator I/O configuration



Actuator control



Extract configuration



Extract datalog

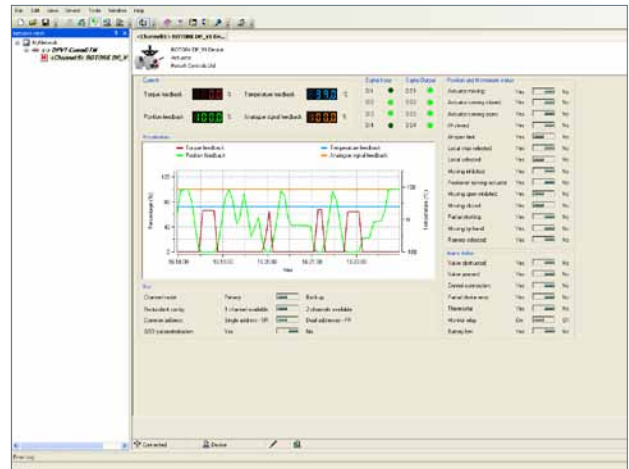


Contact details and links to latest information

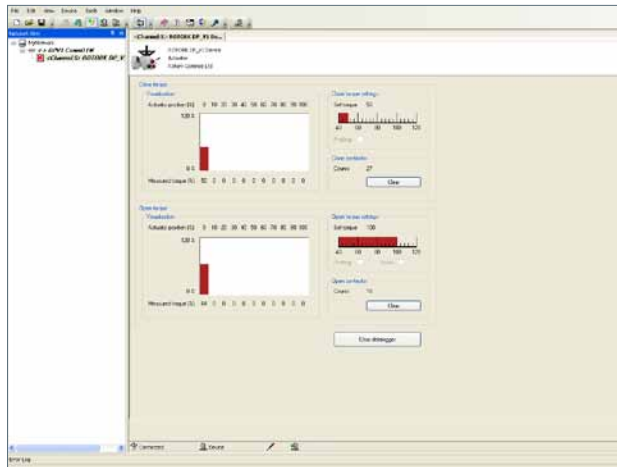
# Design Features

## Unique Rotork DTM features

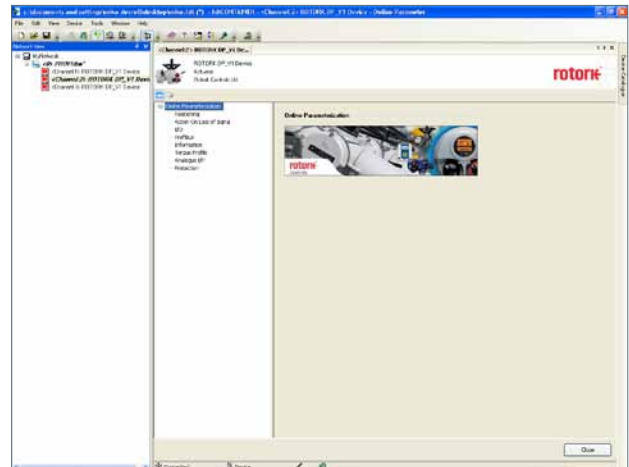
The enhanced Rotork Device Type Manager provides detailed test and diagnostics features. A sample diagnostic screen is shown to the right:



Graphical status monitoring



Torque profiles



Configuration main menu

# Certification

## FDT group certification

The Rotork Profibus DTM is certified by the FDT Group to ensure compatibility and interoperability in a wide variety of applications.

## Availability

The latest Rotork Profibus DTM and FDT Group certificate are available to download free of charge from the Rotork website.

<http://www.rotork.com/en/product/index/profibusliterature>





Electric Actuators and Control Systems  
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Gearboxes and Gear Operators  
Precision Control Instruments  
Projects, Services and Retrofit



UK  
Rotork plc  
tel +44 (0)1225 733200  
fax +44 (0)1225 333467  
email mail@rotork.com

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

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