

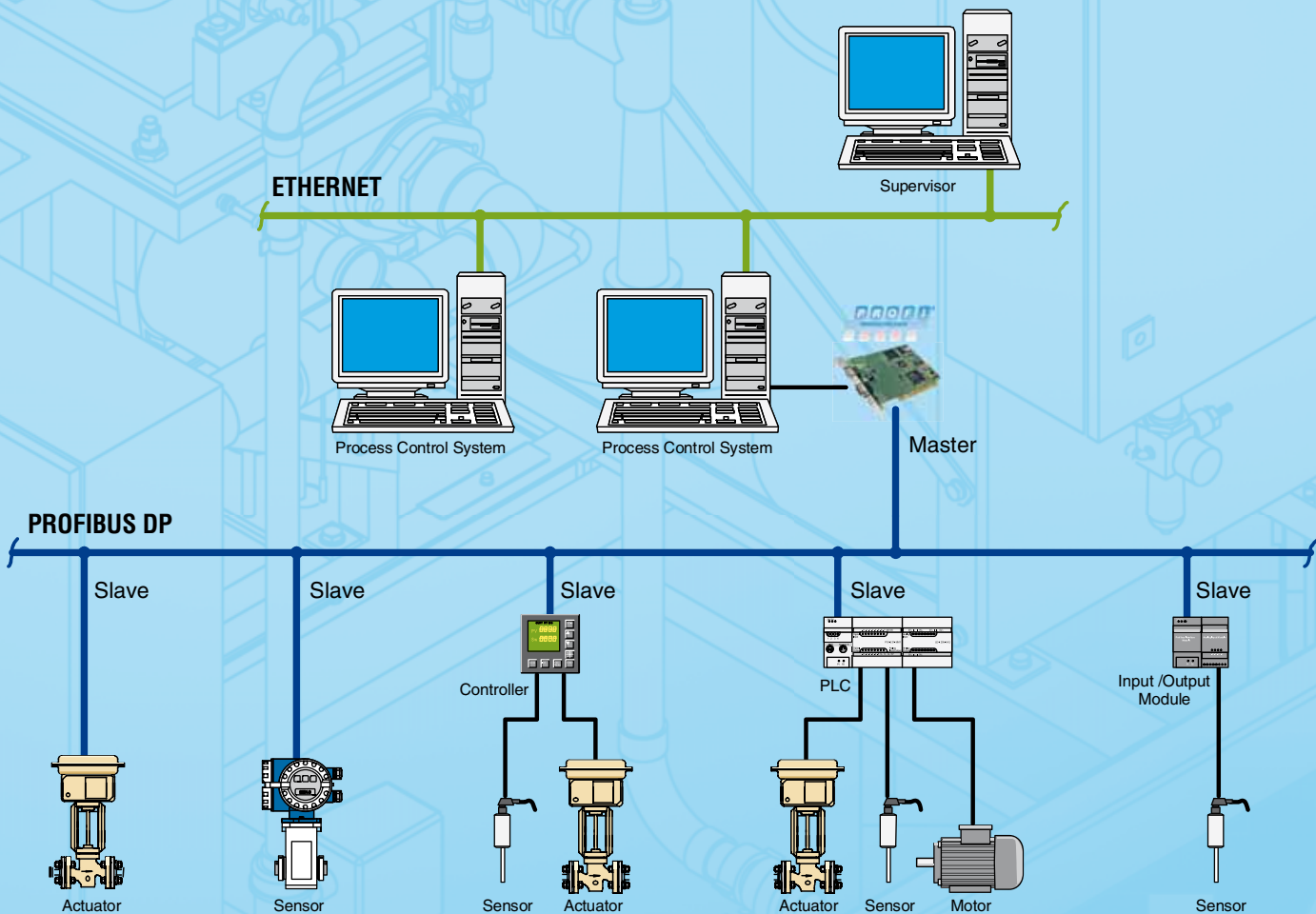
RT 350 – RT 380 EXPERIMENTAL UNITS FOR PROCESS AUTOMATION



Nowadays most industrial processes are automated. Process controllers are at the heart of the automation of process applications. State-of-the-art digital process controllers offer a level of functionality which would have been inconceivable some years ago. Alongside extensive configuration and parameter setting functions to adapt to the control task, they also permit interconnected network-

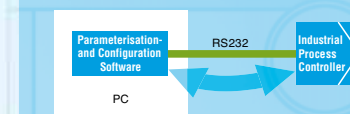
ing. Thus, process automation by way of centralised process control systems or distributed control systems (DCS) is possible. This range of equipment provides a step-by-step introduction to process automation and process control engineering based on process controllers and field bus systems.

NETWORKING IN PROCESS AUTOMATION



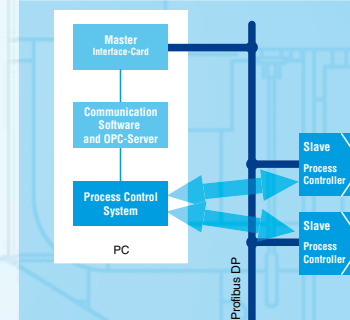
RT 350 OPERATION OF INDUSTRIAL CONTROLLERS

The RT350 is used to practice parameter setting and configuration of a state-of-the-art process controller. This can be carried out either manually by way of the front panel buttons or from a PC by means of a special software programme via an interface. In this case the controller is linked to the PC by a serial port.



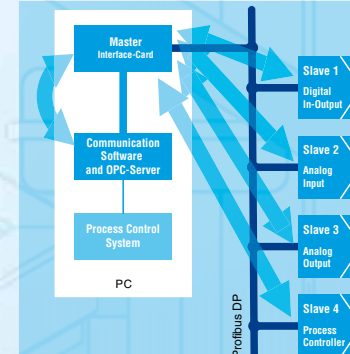
RT 360 NETWORKING OF INDUSTRIAL CONTROLLERS

The RT 360 allows the function of a simple process control system to be demonstrated. The network interconnection is over a field bus (Profibus DP). The PC with its interface card is the master, and the two process controllers are the slaves. The trainer can be used to demonstrate how the controller parameters can be configured from the process control system (adaptive control), and how the process data can be uploaded from the controllers to the process control system and visualised.



RT 370 SETUP OF FIELD BUS SYSTEMS

The RT 370 enables a field bus (Profibus DP) to be set up with various slaves (digital input and output modules, analogue input and output module, process controllers) and a master (PC with interface card). The definitions of the topology, the variables and the protocols are shown. Subjects such as the GSD file, system configurator, OPC server and tags are dealt with in detail. The objective is to interchange data between various field bus-compatible terminal devices and the PC.



RT 380 OPTIMIZATION OF CONTROL LOOPS

Tuning of a controller for optimal controlled system performance can be practised with the RT 380. The controller programme enables user-friendly, intuitive parameter setting of the controller from the PC. A wide variety of controlled system models is available. A configuration programme enables user-friendly, intuitive parameter setting of the controller from the PC. The simulation is created on a PC using a special software programme.

