

E6.4.2

TECHNICAL PROCESSES WITH INDUSTRIAL COMPONENTS

E6.4.2.3

Level & Flow



Level & Flow (E6.4.2.3)

Cat. No.	Description	E6.4.2.3
38-001	Level & Flow Process Control	1
93-420	ESPIAL Software Package	1*
38-002	Temperature Process Control	1*
38-610	Forced Air Cooler	1*
	additionally required: 1 PC with Windows 7/8/10	

* additionally recommended

Level & Flow

The Level & Flow Process Control Trainer is a single loop system allowing the study of the principles of process control, using liquid level and flow rates as the measured process variables. The system is a completely self-contained, low pressure flowing water circuit supported on a benchtop-mounted panel, making it suitable for individual student work or for group demonstrations. It comprises a dual compartment process tank, linked to a sump tank by manual and solenoid operated valves. Water is pumped through the system, via a variable area flow meter and motorised control valve. Level is measured in the process tank. Flow is measured through an optical pulse flowmeter.

Topics

- Flow & level familiarisation & calibration
- Interface familiarisation & calibration
- Controller familiarisation & calibration
- Float Level Transmitter
- Pulse Flow Transmitter
- On-Off Control
- etc.

Experiments are operated and evaluated with ESPIAL.
The equipment can require additional software modules.