REGLERTEKNISKA INGENJÖRSBYRÅN AB

Complete Range of Products

THE COMPANY

Reglertekniska Ingenjörsbyrån AB (RIB) started in April 1967 with manufacturing and sales of own designed training equipment in Process Control and Instrumentation. Our first product, the training equipment model UV 100 became a big success and it is still in operation at some schools.

We continue developing our training equipment using the latest technology in process control. Today we have a complete range of training equipment not just only in process control but also for industrial measurement and PLC.

This pamphlet shows our complete range of equipment today. They are all delivered with self instructive manuals. The manuals are written in a very instructive way so that even the students who is not so experienced can work with them.

RIB is also an industrial training company, a publishing company with own written books, a consulting company and teacher trainer company, all in the field of process control.

INDUSTRIAL TRAINING

The industrial training section also started in 1967. We make training courses for operators, technicians, engineers and managers for all types of process industries. Most of the training is done in Sweden, but we also have a long experience of training abroad.

All our training equipment are real physical processes, no simulation is used in our training courses.

See separate brochure, "Training in Process Control".

TEACHER TRAINING

RIB provide training for teachers on our training units but also in process control and instrumentation.

PUBLICATIONS

We have a quite wide range of training books in Process Control, Industrial Measurement and PC-control and measurement. These books are in the process of being translated to English.

Our wide ranges of self instructive manuals with concentrated theory are available in English.

CONSULTANCY

This is a very exclusive part of our company, possibly not so well known. Nevertheless, those who know, trust only on us when they need help to find out and solve problems in process control. We mostly solve sophisticated problems in non traditional ways. This type of job demands deep process control knowledge and ability to make deep going analyses and design mathematic models for local and total integrated control. The consultancy is always followed up with a report.

COMPUTER BASED TOOLS

Performance Monitoring:

Performance Monitoring, Auditing is a very interesting new area in process control. It makes it possible to use proactive maintenance instead of time based preventive maintenance.

We can also make applications with MATLAB® and we offer complete systems with everything from a laptop computer with installed hard- and software to training and "get going" consult services on your own processes.

SCADA-system:

In cooperation with ABB, RIB provides Compact 800 HMI - RIB Edition. This is a scalable SCADA-system which can communicate with different instruments. We provide Compact 800 HMI - RIB Edition together with our training units. The system is completely open and preconfigured witn all necessary engineeing.

DDC-system:

In cooperation with ABB, RIB offers a professional DCS-system, ABB 800xA.

TRAINING IN PROCESS CONTROL

- Analysis of needs in training
- Curricula and Syllabus
- Course plans
- Project documents in UNDP-form
- Layout for laboratories
- Equipment lists
- Training manuals
- Teacher training at customers site or in Sweden
- Courses in Basic Process Control
- Courses in Advanced Process Control
- Courses with integrated projects on customers processes
- Tailored training for all types of process industries and at all technical levels
- Self instructive training manuals

TRAINING UNITS

Our training units is shown on the following pages. All training units is complete training systems which includes laboratory exercises.

All process control units is now available as process units. The process unit is delivered without controller and recorder. Instead we recommend our UV 720 or UV 730

UV 103/UV 104

Level control of one and two capacity processes.
Basic equipment for all training in process control.
Our best seller!

Now with a new control valve and digital positioner.
UV 104 is the process unit of UV 103.

Can be equipped with SCADA- or DCS-system as well as interlocking system.
UV 730, UV 720, UV 701, UV 711

UV 150/UV 151

Level control of one and two capacity processes including flow control.
Consisting of UV 103 and UV 200 on one panel. Including an advanced single strategy controller.
To be used in advanced process control such as linearizing, characterising, gain scheduling, parameter control, cascade control, feed forward control, mathematics.

Now with a new control valve and digital positioner.
UV 151 is the process unit of UV 150.
Can be equipped with SCADA- or DCS-system as well as interlocking system.
UV 730, UV 720, UV 701, UV 711

UV 200/UV 201

Flow control using magnetic flow transmitter.
Calibration of transmitter, control characteristics and non linear control.
Cascade control with UV 103 or UV 400.
Ratio control with UV 210 or using two UV 200.
UV 201 is the process unit of UV 200.

Can be equipped with SCADA- or DCS-system.
UV 730, UV 720

UV 210/UV 211

Flow control using orifice plate and differential pressure transmitter.
Control valve of industrial standard with smart positioner and cams for different control characteristics.
Mounting station for orifice plate, ring chamber and venting.
Cascade control with UV 103 or UV 400.
UV 211 is the process unit of UV 200.

Can be equipped with SCADA- or DCS-system.
UV 730, UV 720

UV 300

A complete steam boiler unit.
Complete with all required instrumentation using industrial standard instruments.
Cascade control, feed forward control, three element controls.
Interactions between loops. Non linear!... everything.
Gas flow, liquid flow and steam flow.

Optional equipment:
Instrument panel (UV 302), Energy package (UV 704), Alarm and control unit (UV 703), DCS-system (UV 705), Steam turbine (UV 706), SCADA-system (UV 720)....

UV 400/UV 401

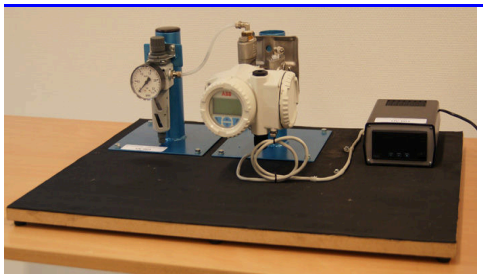
Control of level and pressure in the same vessel.
Interactions between loops. Head box on a paper machine or a fluch tank.
Cascade control with UV 200 or UV 210.
UV 401 is the process unit of UV 400.

Can be equipped with SCADA- or DCS-system.
UV 730, UV 720

UV 500/UV 501

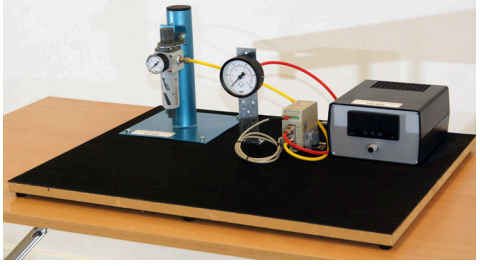
Temperature control in a vessel filled with water.
On-off control. Time proportional PID-control.
Duplex: heat/cold.
Batch control. Ramp/soak programming.
UV 501 is the process unit of UV 500.

Can be equipped with SCADA- or DCS-system.
UV 730, UV 720



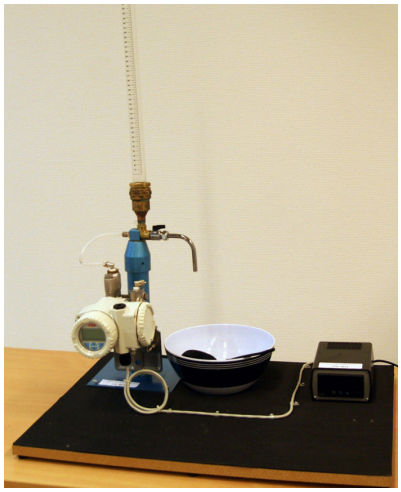
UV 601

Measuring station for pressure.
Smart transmitter.



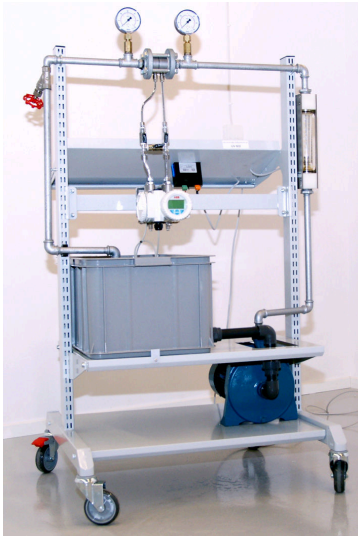
UV 604

Measuring station with I/P-converter.



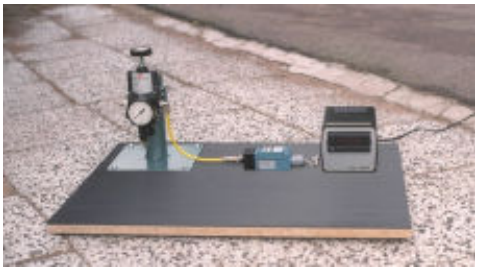
UV 603

Measuring station for level.
Smart transmitter.



UV 602

Measuring station for flow.
Orifice plate, ring chamber and differential pressure transmitters.
Rotameter.



UV 605

Measuring station with P/I-converter.

UV 606

Measuring station for temperature.
T/C, RTD and reporter/recorder.
Additional: Smart temperature converters.

UV 609
Measuring station for temperature.
All components in a practical case.

UV 703
Alarm and control unit for UV 300.

UV 704
Energy package for UV 300.

UV 705
DCS-system.
ABB 800xA. Combined engineer and operator station.
Can easily be upscaled.
All needed engineering is included.

UV 706
Steam turbine for UV 300.

UV 711
Interface unit for UV 103 and UV 150.
Needed for digital control and interlocking.

UV 720
SCADA-system
ABB Compact 800 HMI - RIB Edition.
Can easily be upscaled.
All needed engineering is included.

UV 730
Controller package for all process units.

UV 801
Mounting station.
Instrument panel, cross connections in process and central rooms, instrument mounting in process and local cable and terminal marking.
Two carries connected with a cable tray.

REFERENCE LIST - TRAINING EQUIPMENT

SWEDEN
- All vocational schools
- All retraining centres
- Technical colleges
- Technical universities
- Merchant Marine Schools
- “Terco AB” - for re-export

NORWAY
- Technical universities (Trondheim and Haugesund)
- Merchant Marine Schools (Oslo, Bergen, Trondheim and Tromsö)
- Technical colleges (Kongsberg)

ENGLAND
- “Cussons” - for re-export
- “TQ-International - for re-export

GREECE
- TEI School of Kavala

LATVIA
- Latvia Technology park
- Riga Technical University

KUWAIT
- Kuwait university (two deliveries)

PANAMA
- Merchant Marine School (United Nation project)

VENEZUELA
- Caracas university

BRAZIL
- Merchant Marine School (United Nation project)

INDIA
- Bhabha Atomic Research Centre of Bombay - Training Division
- Ministry Department of Electric and Electronic (UNIDO)
- Institute for Paper of Technology, Saharanpur (SIDA)
- Centre for Electronics Design & Technology, Calicut (UNIDO)
- Cummins College Engineering for Women

SINGAPORE
- Singapore Polytechnic

VIETNAM
- Training Paper Technology (SIDA project)
- General Department of Vocational Training (Nordic Development Fond)

IRAN
- Exported by other company

ANGOLA
- Exported by other company

PAKISTAN
- Punjab University Department of Chemical Engineering and Technology (two deliveries), Lahore

KAZAKHSTAN
- Karachaganak Petroleum

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