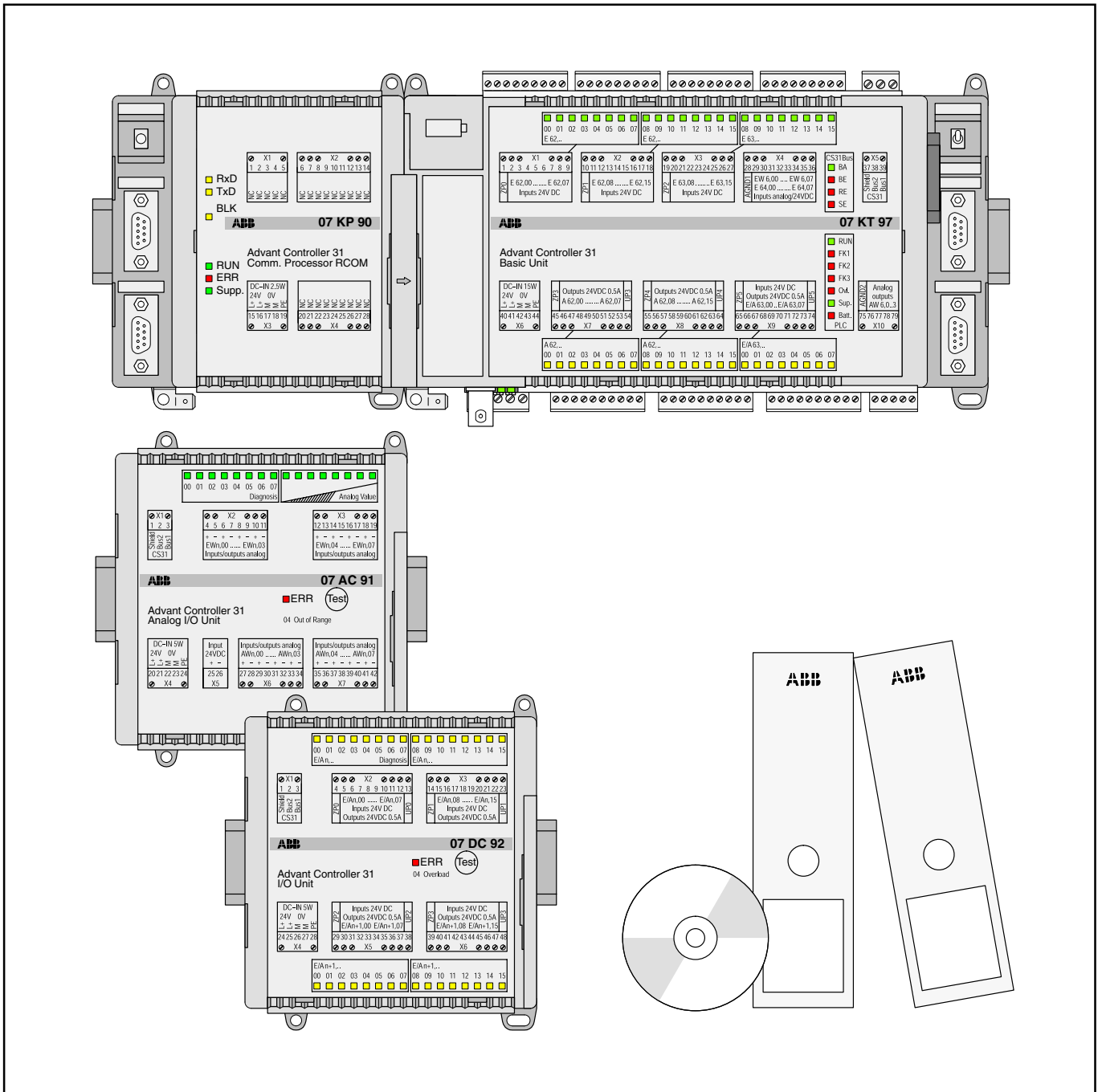


## Introduction





# Table of Contents

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**Advant Controller 31. Open for the future.**

- 2 Customer training ..... 2-1**
- 3 Maintenance service and support ..... 3-1**
- 4 Applications department ..... 4-1**
- 5 Customer support and addresses ..... 5-1**



## 2 Customer Training

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To support project planning, commissioning, and operating of Advant Controller 31 control systems

ABB STOTZ-KONTAKT GmbH  
Abt. STO/VPS  
Eppelheimer Straße 82    Postfach 10 16 80  
D-69123 Heidelberg      D-69006 Heidelberg  
Telephone                06221 701-1202  
Telefax                    06221 701-1361

offers customer training. If desired, training can also be performed at customer sites.

For detailed information on this training please refer to our "Seminar catalogue", which can be requested over the above mentioned address, over all other ABB service centers or all ABB STOTZ-KONTAKT representatives.

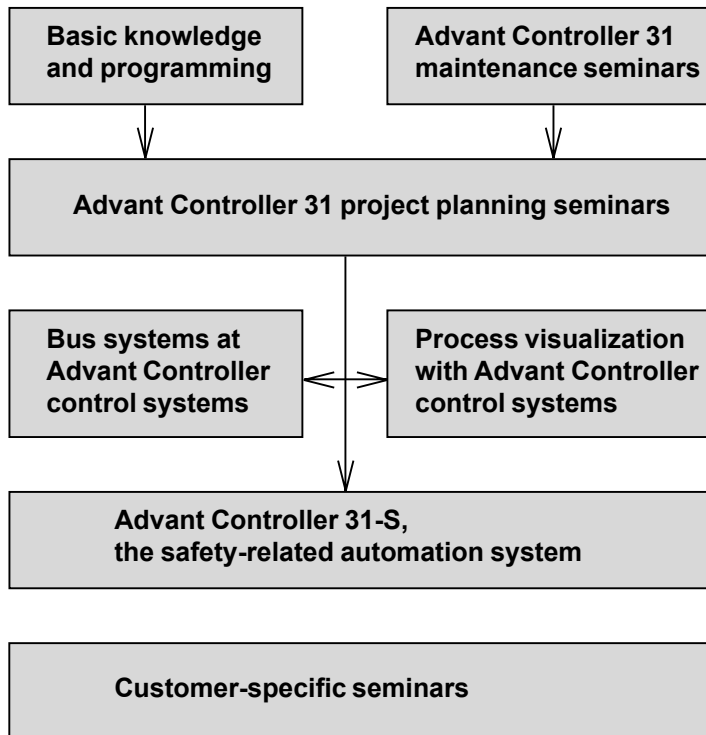
The enrolment is to be done by directly contacting ABB STOTZ-KONTAKT or via our regional offices.

The following seminars can be attended:

## Basic knowledge and programming

Knowledge of the different hardware components of the decentralized intelligent automation systems, basic knowledge of the Advant Controller control systems (AC31) and the programming systems 907 AC 1131 and 907 PC 31.

Practical training with the programming software at the automation systems. Exercises with different tasks at the 07 KR 91 / 07 KT 92 to 07 KT 98 basic units.



### AC31 maintenance seminars

Getting knowledge of the programming language and the hardware components, possible combinations, start-up of a model plant including trouble shooting in the automation system, in the area of the process interface level and in the model plant itself.

### AC31 project planning seminars

Project planning, programming and commissioning of model plants. Principles of networking and the data exchange via serial interfaces (process control). Practical training at the automation systems.

## Bus systems at AC31 control systems

Knowledge of the CS31 system bus. Start-up of the networking between different ABB automation systems via ZB20, ARCNET, Pdnet and MODBUS. Getting knowledge of the possibilities for communication between automation systems via the telephone network or via dedicated lines with RCOM. Exercises with the mentioned items.

## Process visualization with AC31 control systems

Knowledge of the process visualization by means of process visualization software packages. Training of man-machine communication. Exercises to the items at the model plant "Liquid-level control".

## AC31-S, the safety-related automation system

Knowledge of the hardware and software components of the safety-related automation system. Programming and commissioning of the AC31-S. Exercises at the model plant "3-axes model".

## Customer-specific seminars

Upon request, seminars can also be arranged as desired by the customer. Depending on the requirements, seminars can be held in Heidelberg or in another place.

Concerning the automation systems ABB Procontic s-plus, e, b, K200, T300, Axumerik m and the positioning of axes, we also offer seminars. Based on your requirements, we gladly arrange an individual seminar for you.

# 3 Maintenance Service and Support

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## Maintenance Service

We operate a qualified service department, so we can help you to solve even difficult problems.

- Advice by telephone (Help line)
- Trouble shooting and fault recovery of the machine and plant
- Support in case of program development
- Training of the personnel in the factory
- Renting of programming tools

In case of service support we ask you to do the according preparations depending on the desired service e. g.:

- Making available the complete documentation
- Free access to the machine/plant
- Assignment of operating personnel etc.

Inquiries and orders are to address to:

ABB STOTZ-KONTAKT GmbH  
Abteilung STO/TE, Hotline Control Engineering

Eppelheimer Straße 82  
D-69123 Heidelberg

Postfach 10 16 80  
D-69006 Heidelberg

Telephone +49 6221/701-1444

Telefax +49 6221/701-1382

## Support

The range of support provides for the following:

- Delivery of spare equipment
- Repairing of faulty units and systems

Inquiries and orders are to address to:

ABB STOTZ-KONTAKT GmbH  
Abteilung STO/VPK

Eppelheimer Straße 82  
D-69123 Heidelberg

Postfach 10 16 80  
D-69006 Heidelberg

Telephone +49 6221/701-1407

Telefax +49 6221/701-1412



## 4 Applications Department

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Our modular programmable control system Advant Controller 31 provides you with a wide range of high-performance modules and standard software to master all your applications.

The applications department helps you select the appropriate system for solving your particular tasks. We are also in a position to develop your special user- or problem-oriented user program.

In this way you can make use of ABB's know-how in the field of 'factory automation'.

In particular the applications department offers:

- Cooperation during specification of control tasks and defining of the most suitable system configuration
- Developing of user programs such as PLC instruction lists or sequential function charts for the Advant Controller 31 system
- Commissioning

Precondition for this is that a time schedule is agreed and progress of work supervised continuously by a project engineer to be appointed by the user.

For assistance please contact the Applications Department:

ABB STOTZ-KONTAKT GmbH  
Projekte, Applikationen, Engineering  
Abteilung STO/TE

Eppelheimer Straße 82  
D-69123 Heidelberg

Postfach 10 16 80  
D-69006 Heidelberg

Telephone 06221/701-1203

Telefax 06221/701-1361



# 5 Customer Support and Addresses

You can consult competent ABB employees worldwide under the following addresses, and they will be pleased to advise you:

## Germany

**HelpLine** Control Engineering:

Technical information, advising assistance by telephone

Telephone + 49 6221 701-1444  
Telefax + 49 6221 701-1382

ABB STOTZ-KONTAKT GmbH

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Telefax + 49 30 91 77-21 01

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D-89079 Ulm

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Vertriebsbüro München, STO/VO-BM

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D-81377 München

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D-70597 Stuttgart

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