

© Copyright 2014 KUKA Roboter GmbH Zugspitzstraße 140 D-86165 Augsburg Germany

This documentation or excerpts therefrom may not be reproduced or disclosed to third parties without the express permission of KUKA Roboter GmbH.

Other functions not described in this documentation may be operable in the controller. The user has no claims to these functions, however, in the case of a replacement or service work.

We have checked the content of this documentation for conformity with the hardware and software described. Nevertheless, discrepancies cannot be precluded, for which reason we are not able to guarantee total conformity. The information in this documentation is checked on a regular basis, however, and necessary corrections will be incorporated in the subsequent edition.

Subject to technical alterations without an effect on the function.

Translation of the original documentation

KIM-PS5-DOC

Publication: Pub MA KR C4 LWW (PDF) en

Book structure: MA KR C4 LWW V2.3 MA KR C4 LWW V2 Version:



Contents

1	Introduction	5
1.1	Industrial robot documentation	5
1.2	Representation of warnings and notes	5
1.3	Terms used	6
2	Purpose	7
2.1	Target group	7
2.2	Intended use	7
3	Product description	9
3.1	Robot controller with air/water heat exchanger option	g
3.2	Functional description	9
3.3	Components	10
3.4	Interface XE5	11
4	Technical data	13
4.1	Basic data	13
4.2	Dimensions of air/water heat exchanger	13
4.3	Requirements for the hoses	13
4.4	Requirements for the cooling water	14
4.5	Processing the cooling water	15
5	Safety	17
5.1	Important remarks	17
6	Transportation	19
6.1	Transportation using lifting tackle	19
6.2	Transportation by fork lift truck or pallet truck	20
7	Start-up and recommissioning	21
7.1	Connecting the water circuit	21
7.2	Connecting the condensate outlet	22
8	Maintenance	23
9	KUKA Service	25
9.1	Requesting support	25
9.2	KUKA Customer Support	25
	Indox	33



1 Introduction

1.1 Industrial robot documentation

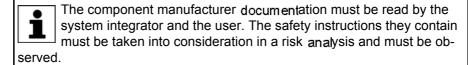
The documentation of the industrial robot consists of documents created by KUKA Roboter GmbH and documentation from other manufacturers.

Documentation from KUKA Roboter GmbH:

- Documentation for the manipulator
- Documentation for the robot controller
- Operating and programming instructions for the System Software
- Instructions for options and accessories
- Parts catalog on storage medium

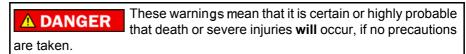
Documentation from other manufacturers:

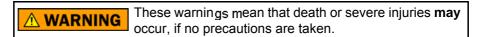
Documentation for the air-water heat exchanger

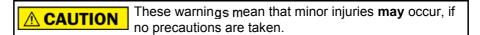


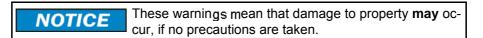
1.2 Representation of warnings and notes

These warnings are relevant to safety and **must** be observed.





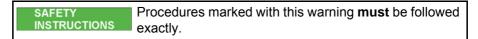




These warnings contain references to safety-relevant information or general safety measures.

These warnings do not refer to individual hazards or individual precautionary measures.

This warning draws attention to procedures which serve to prevent or remedy emergencies or malfunctions:



Notices

Safety

These notices serve to make your work easier or contain references to further information.



Tip to make your work easier or reference to further information.



1.3 Terms used

Term	Description
Biocides	Biocides are chemicals that combat living organisms.
Leakage monitoring	Leakage monitoring detects unintentional loss of water from the water circuit.
LWW	The German acronym for air/water heat exchanger (in German: Luft-Wasser-Wärmetauscher)
Recooling system	The recooling system cools the warmed cooling water and returns it to the water circuit.



2 **Purpose**

2.1 **Target group**

This documentation is aimed at users with the following knowledge and skills:

- Advanced knowledge of electrical and electronic systems
- Advanced knowledge of the robot controller
- Advanced knowledge of the Windows operating system



For optimal use of our products, we recommend that our customers take part in a course of training at KUKA College. Information about the training program can be found at www.kuka.com or can be obtained directly from our subsidiaries.

2.2 Intended use

Use

The air/water heat exchanger is used to cool the robot controller if, for system reasons, other cooling or air conditioner devices cannot be used. It protects temperature-sensitive components in the robot controller and prevents overheating. The housing of the robot controller with the air/water heat exchanger option has no ventilation slits, thus preventing dust and air layers in the environment from being stirred up.



This option cannot be retrofitted.

Misuse

Any use or application deviating from the intended use is deemed to be misuse and is not allowed. This includes e.g.:

- Use as a climbing aid
- Operation outside the permissible operating parameters
- Use in potentially explosive environments
- Use in underground mining

以上内容仅为本文档的试下载部分,为可阅读页数的一半内容。如要下载或阅读全文,请访问: https://d.book118.com/33805510705 7006063