



European Installation Bus

Project Engineering for EIB Installations

Basic Principles

4th (revised) edition

Foreword

Higher demands on security, flexibility and comfort with regard to electrical installations, combined with the need to minimise energy requirements have led to the development of building management systems.

The bus technology used here is based on a common European concept, the European Installation Bus (*EIB*). Manufacturers across Europe are united within the framework of EIBA, the European Installation Bus Association.

The member companies of EIBA guarantee that bus-compatible products are available world-wide and that electrical installations designed with the *EIB* installation bus can be combined across different building disciplines (e.g. gas and plumbing), without complications.

The "Project Engineering for *EIB* Installations, Basic Principles" document is an essential element of the implementation of this concept. Independent of their respective companies, electricians, planners, manufacturers and operators are introduced to systems and basic applications and informed about the fundamental considerations during planning, installation, commissioning and extensions.

With the rapid, world-wide spreading of *EIB*, the on-going innovative developments have led to a completely revised 4th edition. This new edition incorporates recent experiences from practical operation, as well as consistent developments such as the *EIB* Tool Software (ETS), the HomeAssistant® and new transmission techniques via the mains supply network and radio.

The expansion possibilities in terms of application, production, functionality and services open up additional fields of activity and market opportunities for manufacturers, electrical industries and electricians. Practical examples of applications are given in the separate document entitled, "Project Engineering for *EIB* Installations, Applications".

In the writing of this document we would like to extend our sincerest thanks to the commitment and competence of those employees involved in the ZVEI/ZVEH "manual" and "training measures" work groups, without whom the realisation of this common concept would not have been possible.

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