



CERTIFICATE

Mr. Jacek Zart born on 13.06.1965 in Pila

has attended the seminar

European Installation Bus EIB Projecting and Commissioning

- Installation bus technology
- System functions
- Installation bus topology, hierarchy
- Addressing mode, telegram
- Installation bus devices
- Planning the Installation Bus EIB
- Engineering with EIB Tool Software ETS2
- Projecting examples of applications as lighting, heating/ventilation displaying+indication/controlling/security
- Commissioning of examples of applications with Line Couplers
- Diagnosis and test of EIB-functions
- Error analyzis
- EIB Powerline, functions and practical application

at DIAL – Deutsches Institut für Angewandte Lichttechnik from August, 2nd to 6th, 1999 (40 lessons)

and has successfully passed the final examination consisting of a theoretical and a practical part according to the EIBA rules.

Luedenscheid, 6th August 1999

Dipl.-Ing. A. Bossow

(Training Manager)

Dipl.-Ing. J. Waldmann

(EIB Trainer)