ELS®

Technical data	ELS Software V 5.4
Operating systems supported:	• Windows 2000, Vista, XP, 7, 8, 10 • Windows Server 2003/2008/2012/2016
System prerequisites:	• PC with 1,000 MHz processor or higher • Minimum of 100 MB available hard disk space • CD-ROM drive • 1 free (USB) COM interface • Recommended additional software components: Microsoft Excel Office 97-2016
User languages:	• German, English, French, Dutch, Spanish, Italian
Users:	• 10 users, can be extended by a further 10 users • Flexible rights: View, New, Change, Delete
Database:	• SAP SQL Anywhere 12 (OEM version) • Login through name and password • Optional: SAP SQL Anywhere 17 (client/server version) for simultaneous access to the database by several clients via the network
	Event memory • Storage of the released device events • Selection via groups or single events • Scope depending on the hard disk space available
	Journal memory • User actions are stored • Selection via user, date/time, action • Scope depending on the hard disk space available
Modules:	Module size / Devices / Transponders S 25 100 M 125 500 L 750 3.000 XL 9.500 32.000
	Client module • System with up to 10 clients (can be extended by a further 10 clients) • Distribution of devices and locking media among the clients
	Client-server module • Multi-user version • Simultaneous access to the software by several users
	Online module • Networking of the end devices via Ethernet / TCP / UDP • Central programming and monitoring of all end devices • Max. online devices: Depending on the licence purchased, the system structure and the PC hardware used by the customer.
	Intelligent transponder module • Management and programming of intelligent transponders (Hitag S) • Central programming of authorisations

ELS®

Technical data	ELS Software V 5.4
Authorisation assignment:	Management possible through group and areas • Organisation of the end devices in areas • Organisation of the transponders in groups • Assignment of area and individual authorisations for intelligent transponders Possible time-related restrictions: • 31 freely definable week-related time zones with 3 intervals per day (time zone 32 = without time limit) • Public holiday calender for 32 public holidays • Public holiday calender for 15 holiday intervals
Devices and transponders supported:	Programming media: • ELSmobile software • USB RF radio stick for offline programming • Old devices: Serial IR adapter for offline programming • Old devices: Pocket PC (PDA) • Old devices: Programming device (PG1)
	End devices (old): • ELS Pro (type: 47) • ELS Protector® • ELS Guardian • ELS AccessManager , ELS AccessManager Terminal • ELS ITT (intelligent transponder terminal) • ELS desktop reader (serial) • ELS-P, MFS, LSE, ELS999, (butler) End devices (from May 2018): • ELS Pro (type: 48) • ELS AccessManager V7 , ELS AccessManager Terminal V7, ELS AccessManager ITT V7 • ELS RF-NetManager • ELS desktop reader (USB) • Device import through CSV file prepared by DOM (must always be specified on order)
	Transponders • Hitag 1, 2, S • EM 4100, 4102, 4150, 4450 • (Deister) • (butler ID device)

ELS®

Technical data	ELS Software V 5.4
Master data management:	• 5 freely definable master data types (e.g. employees, visitors, external companies) • 3 definable field names (e.g. personnel number, function, department) • Addition of an image file • Blocking option, validity from to • Field for remarks or other entries • Copy and search function • Master data import/export via CSV file
Interfaces:	• ODBC database interface • Optional: OEM interface: Remote control of the ELS software running in the background via TCP/IP
Protocols:	• TCP • UDP
Ports TCP connection:	TCP server (old devices): • Port 9601 (incoming: events) • (ELS Software MultiLine or Client/Server: 9601 … 9608) TCP Client (old devices direct (ELS software)): • 19000 (outgoing: configuration)
Ports UDP connection:	UDP Client (old devices): • Port 10002 (outgoing: communication with the end devices, 1: 1) UDP Client (old devices direct (ELS software)): • Port 19001 (outgoing: broadcast for the configuration) UDP Client/Server: • Port 9601 (outgoing: communication with the end devices ELS AccessManager V7 and ELS Pro type: 48) • Port 9601 (incoming: events and alive-dialogues from the end devices ELS AccessManager V7, ELS RF-NetManager and ELS Pro type:48) UDP Client/Server (ELS software): • Port 47138 (outgoing: configuration of the end devices ELS AccessManager V7 and ELS Pro type:48) • Port 47138 (incoming: alive-dialogues of the end devices not yet configured)
Scope of supply:	• DVD with software and instructions

All specifications correspond to the current development status. We reserve the right to make technical changes at any time