AceProx Team

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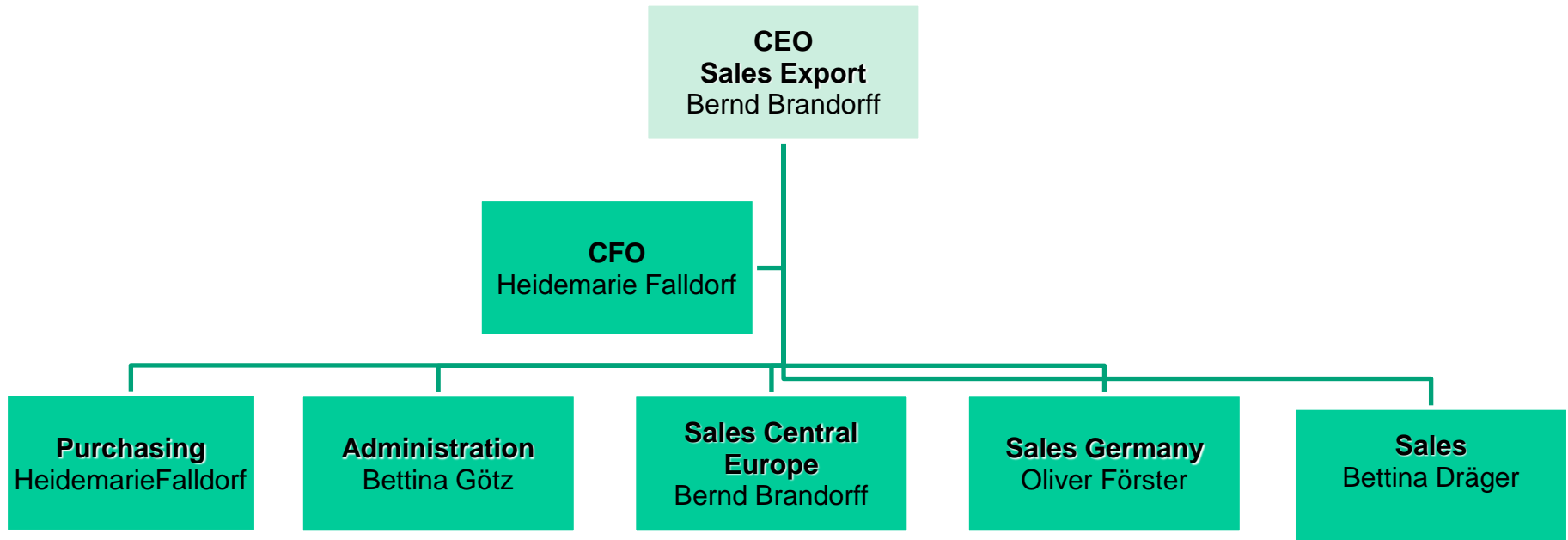Bernd Brandorff

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AceProx

Identifikationssysteme GmbH

Aceprox Company Profile

- The AceProx Identifikationssysteme GmbH emerged in 1999 from formerly known industrial agency Dipl.-Ing. Bernd Brandorff (since 1992).

- Contactless identification using passive transponder technology was the centre of the business activities already in 1992. In the beginning it were mostly ready-to-install access control systems that applied RFID Technology and were distributed by us in the European market.

- From its establishment in 1999 the focus of the AceProx Identifikations GmbH shifted to production and distribution of hardware components for contactless identification (reading units and transponders in various designs) mainly for system integrators and to hardware manufacturers.

- Today a comprehensive product portfolio for both 125kHz as well as 13,56MHz technology, offering read ranges from a couple of cm to 100cm make the AceProx GmbH a well-known "One-Stop-Shop" for all kinds of RFID-related hardware. This includes customized devices for many applications.

- Since its early days the AceProx GmbH is operating as a true international company servicing customers all over Europe as well as in Australia and South Africa.

- In order to cope with increasing business volume, the AceProx GmbH moved to larger premises in October 2003. Further expension took place in July 2004 by opening a subsidary in Johannesburg, South Africa. Further expansion is planned for the near future by striking strategic partnerships with local RFID-focussed companies around Europe.

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RFID Hardware Solutions
for easy system integration

125kHz:

EM4102, EM4200 r/o

EM4305 r/w Atmel ATA 5561, 5567, 5577 r/w

HID-Prox II -compatible

NEW: LF Secure Reader

13,56MHz:

ISO 14443A

Mifare Ultralight, Desfire, Classic 1K / 4K,

Plus S/X

Standardized Housings:

Interfaces/output formats:

RS484

RS232

Clock & Data

Wiegand

PS/2

USB Human Interface Device emulating

ISO 14443A

*PS/2

*RS232

Customized firmware without MOQ!

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I d e n t i f i k a t i o n s   G m b H

Product overview   125kHz & 13,56MHz

RFID Readers and Reader Modules
for typical applications:

-Access Control
-Canteen Management
-Time Registration
-Ticketing (Events, Public Transport)
-Point-of-Sales Applications

Data Interfaces:

-RS232, RS485, USB, TCP/IP
-Wiegand 26 to 44bit, Clock&Data

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AceProx Proximity Readers with Keypad

484-52

584-52

For all applications requiring a PIN code in addition to the code read from the card or tag, AceProx offers two models of Keypad 125kHz Readers:

The 484-52 comes with infrared keypad and supports all the different output formats known from the AceProx 684-52 reader. The 584-52 with its vandal-resistant and weather-proof metal housing comes with a Wiegand output or can be used as a 1-Door stand-alone access control system with the possibility to individually delete lost or stolen cards.

Model	484-52	584-52
Chips Supported	-EM 400X, 4102, Unique, Crosspoint	-EM 400X, 4102, Unique, -HID-Prox 26/37 bit
Housing	-Plastic	-Metal – anti-vandal case
Output Format	-Aceprox Standard multiple output -13 formats - selection by dip switch	-Wiegand 26-37bit
Features	-multiple output formats compatible -with all other AceProx Readers	-1-Door Stand-Alone Access Control for up to 2000 Users -Additional reader connectable also 13,56MHz -2 relays operation
Operating Temp.	- -10°C - 55°C	- -20°C - 60°C
Waterproof	-IP 55	-IP 68
Operating Voltage	-12V DC 1A	-12-24V DC or 12-18V AC
Power cons.	-200mA	-25mA
Dimensions	-L120 x W77 x H22mm	-L128 x W82 x H28mm
Net Weight	-140 g	-600 g

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USB or PS/2 Desktop Readers with PC Keyboard Emulation

The AceProx Desktop Card Readers with USB or PS/2 interface are specially designed for the operation in a PC environment. Their internal code can be used directly in the applicable software application without any need for software modification, since it is entered at the Curser Position. Like this typing errors can be avoided and the card number does not need to be printed on the outside anymore.

All readers provide a keyboard emulation and can be plugged directly into a USB or PS/2 Port without installation of any hardware drivers. The USB versions are true Human Interface Devices (HID), so they can also be used in non-PC environments, i.e. control of photocopiers. No external power supply required.

Applications:
- Verification of passive transponder card number
- POS Systems
- PC User Authorisation
- Security & Access Control Systems as log-in unit or take-on reader
- Control of printers and photocopiers

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USB or PS/2 Desktop Readers with PC Keyboard Emulation

Operating Frequency	125 kHz	125 kHz	13,56 MHz	13,56 MHz	125 kHz / 13,56 MHz
Chips supported	EM 400X, 4102, Unique, Crosspoint	HID-Prox 26 bit & 37 bit	Mifare Ultralight, Standard 1K/4K, Plus, Desfire, Ntag 2XX	Mifare Ultralight, Standard 1K/4K, Plus SL1, Ntag 2XX	EM4102/4002, Atmel 55XX, HID-Prox 26/37 bit, I-Class (fixed ID) Mifare Family UID/ID, Ntag 2XX
Standard	-	-	ISO 14443A	ISO 14443A	ISO 14443A
Output Data String	ID-Code in Decimal, Hexadecimal or Crosspoint	Site Code and/or User Code	ID-Code in Decimal or Hexadecimal	ID-Code and/or Sector Data in various formats	ID-Code in Decimal or Hexadecimal, Wiegand.
Configuration by	DIP-Switch	DIP-Switch	DIP-Switch	CONFIG-Card	DIP-Switch
PS/2*: Product Ref.	732-52	-	734-52	735-52	-
USB: Product Ref.	736-52	728-52	738-52	737-52	865-52

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Weather-resistant IP65 RFID Readers

The Aceprox IP65 certified OEM proximity wall mounting readers consist of three parts: a potted unit containing the electronics, a front cover, and an optional spacer plate for easy surface-mount installations even on metal. The readers are tested and certified to meet the conditions of the dust and water protection rating IP65.They are designed to operate in outdoor environment under harsh conditions and are fully weather-resistant.

The unit also allows for user control of the three LED´s and sounder. A fixed 10 way colour coded cable protrudes from the back of the potted unit.

Applications:
- Kiosk Terminals
- Security Systems, i.e. access control
- Parking Systems
- Ticketing for events or Public transport
- City or Island Cards with payment function

Frequency	125 kHz	125 kHz	125 kHz	13,56 MHz	13,56 MHz	13,56 MHz
Chips supported	EM4102, EM4200 and Atmel Temic E5577 series	EM4102, EM4200 and Atmel Temic E5577 series	HID Prox II ® 26 / 37 bit	Mifare® Classic 1K/4K, Ultralight,Plus and DESFire EV1, **NFC**	Mifare® Classic 1K/4K, Ultralight and Plus SL1, **NFC**	Mifare® Classic 1K/4K, Ultralight and Plus SL1, **NFC**
Standard	---	---	---	ISO 14443A	ISO 14443A	ISO 14443A
Output Data String/ Transponder ID Code	ID-Code in Hexadecimal after Poll command	ID-Code in 14 different user selectable formats	Site Code and/or User Code in 6 different user selectable formats	ID-Code in 14 different user selectable formats	Software command-driven Reader/Writer	ID-Code and/or Sector Data in various formats
Interface/Output formats supported	RS 485 with addresses 1-15, ASCII Software commands	Wiegand, Magstripe RS232 EIA and TTL Levels, Clock/Data, Crosspoint	Wiegand,Magstripe RS232 EIA and TTL Levels, Clock/Data	Wiegand,Magstripe RS232 EIA and TTL Levels, Clock/Data, Crosspoint	RS232	Wiegand, Magstripe RS232 EIA and TTL Levels, Clock/Data
Configuration by	---	DIP Switch	DIP Switch	DIP Switch	---	Config Card
Product Reference	683-52	684-52	688-52	714-52	716-52	718-52

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Product overview   125kHz , Long Range

Max. emitted power **1mW**

Typical Applications
-Access Control: Hands-free applications
-Parking / Vehicle Identification
-Animal ID
-Laundry: Tracking of laundry items
-Ski Pass systems

Future Applications
-Airline Baggage Tracking
-Consumer Goods Labelling

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Transponders

RFID Applications (1)

User Identification

Ski - Passes

Airline Check In

Access Control

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RFID Applications (2)

Electro Mobility

Petrol Stations

Industrial Weighing
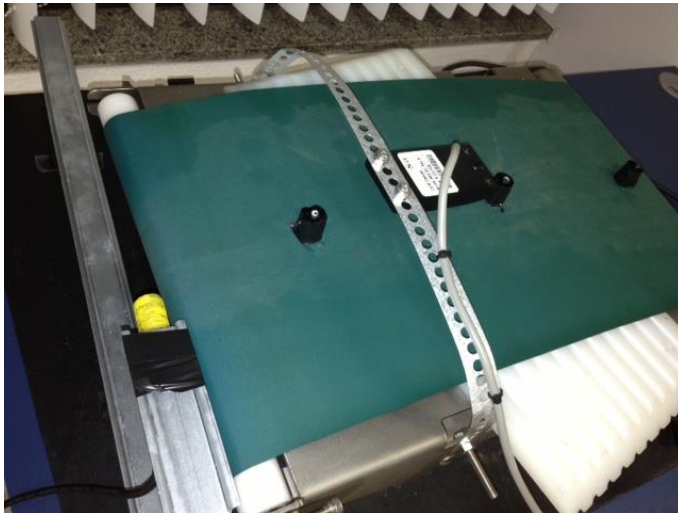
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RFID Applications (3)

Public Parking

Waste Bin Systems

City or Island Cards

Bicycle Rental

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Contact Details

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