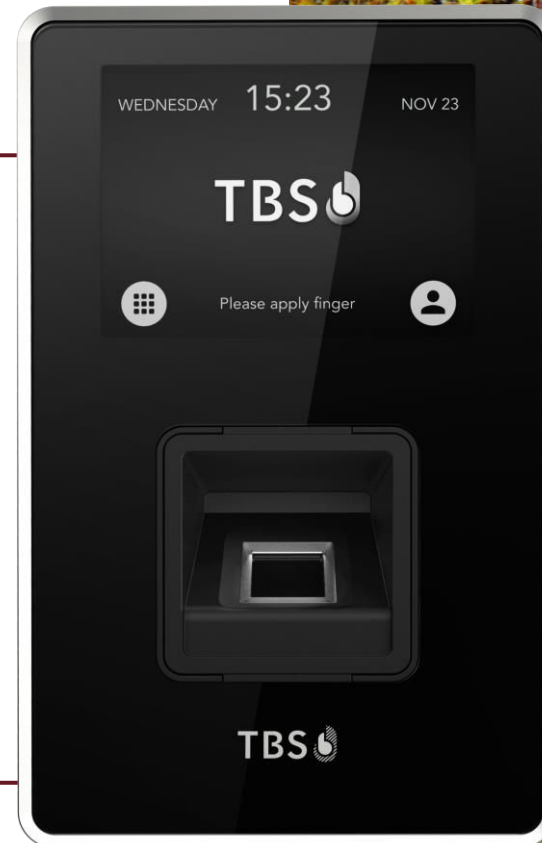
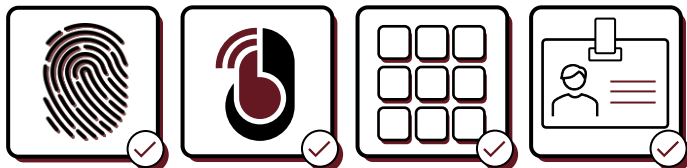
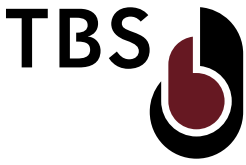


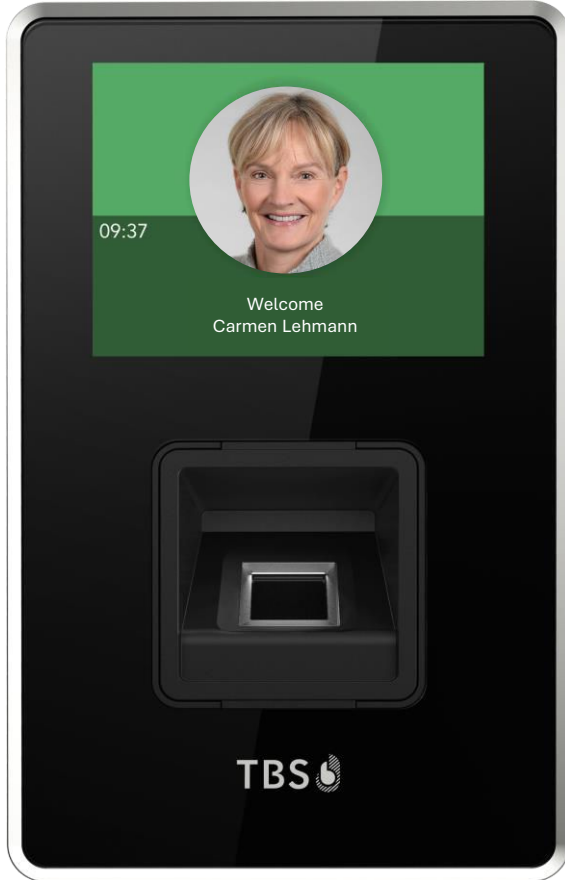
2D SENSE



2D SENSE



2D SENSE is a compact, multi-functional touch terminal with an excellent recognition performance – designed and manufactured in Switzerland



- (1) Capacitive touch sensor with in-built anti-spoofing protection
- (2) Good security level suited for medium-sized user groups
- (3) Up to 15'000 users
- (4) 3.5-inch color touchscreen
- (5) PIN Code, Mobile ID
- (6) Various RFID options
- (7) Verification using combined ID factors
- (8) Easy setup of Time & Attendance buttons
- (9) Versatile configuration and customizing (customer workflows, user interface)
- (10) Firmware extensions for finger-specific user actions like Alarm system control
- (11) Elegant design with flush mount option
- (12) Manufactured in Switzerland

Enrollment Options:

- (1) on 2D SENSE using touchscreen
- (2) on 2D SENSE using remote control
- (3) on 2D ENROLL USB sensor



DATASHEET 2D SENSE



TECHNICAL SPECIFICATIONS

| Category | Feature | Standard | Optional |
|-------------------------|--|--------------|----------|
| Biometric Sensor | 2D Fingerprint capacitive | • | |
| ID Factors | PIN | • | |
| | RFID | | • |
| | TBS MobileID (Bluetooth) | | • |
| User Interface | Touchscreen size | 3.5" | |
| | Touchscreen Resolution | 640 × 480 | |
| | Loudspeaker | • | |
| Biometrics | Identification (1:N) database limit ¹ | 5'000 | 15'000 |
| | FRR at FAR 1:100'000 | < 2.0% | |
| Communication | LAN | • | |
| | Wifi and/or BLE | | • |
| Interfaces | RS-485 (OSDP) or RS-232 (switch) | 1 | |
| | Wiegand out | 1 | |
| | Relay (NO/NC/COM, max. 60V/30W) | 1 | |
| | GPIN / GPOUT | 3 / 1 | |
| Security | Tamper Switch | | • |
| Installation | Power supply rating | 12 - 24 VDC | |
| | Max. power consumption | 5 W | |
| | Operating temperature | -20 to 60 °C | |
| | Operating humidity | 10 to 90% | |
| | Wall mount or Flush mount box | • | |
| Certifications | CE, FCC/IC, ISO 9001/14001 | • | |

ACCESSORIES & FEATURES

Hardware Extensions (optional):

- Integrated RFID reader
HF: MIFARE Classic/DESFire, HID iCLASS, LEGIC
LF: HID Prox, other formats on request
- TBS Door Controllers:
CONTROLLER LITE (2 relays, 2 GPIN/GPOUT, via RS-485)
CONTROLLER SMART+ (4 relays, 4 GPIN, 4 GPOUT, via RS-485 or LAN)

Software Extensions (licensed):

- TBS MobileID: Power Package «Multi-Factor» required
- Extended Identification (1:N) limit with BIOMANAGER Premium Plan

Installation Options:

- Wall mount box for indoor installations (IP20)
- Flush mount box for indoors and outdoors (IP54).
Outdoor protection kit available. NO direct sunlight!

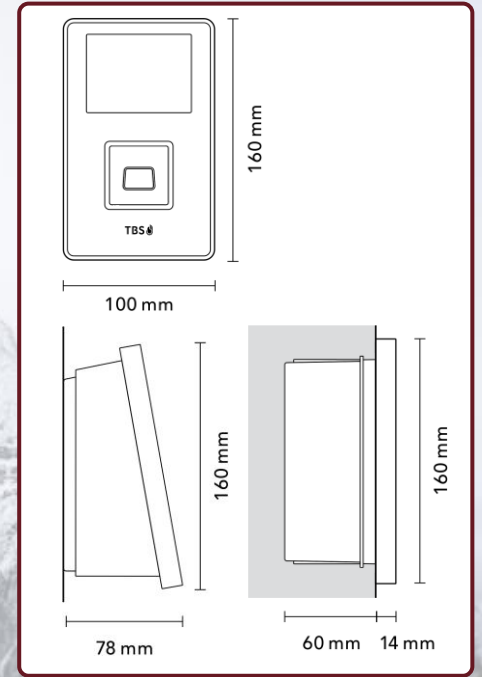
TBS System Security:

- Multi-level data encryption, with option to define a custom Template Encryption Key
- Protected communication channels (SSL) with option to use custom SSL certificates

Seamless Integration:

- Device connects to TBS BIOMANAGER Server hosted On-Premise or in the TBS Cloud
- Flexible integration options
 - REST APIs on system and device level available
 - Enrollment integration into 3rd party software supported

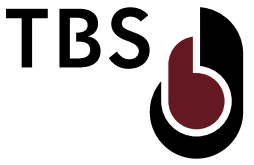
DIMENSIONS



CUSTOMIZING



MORE THAN JUST A READER



FIVE REASONS FOR YOUR CHOICE

(1) EUROPEAN COMPETENCE YOU CAN TRUST

Swiss perfection, German thoroughness and Czech ingenuity - built on integrity and reliability.

(2) TAILOR-MADE FOR DEMANDING CLIENTS

From the world's top-rated airport to the No.1 Department of Defence, TBS is the undisputed leader in bespoke solutions.

(3) ALL-IN-ONE PLATFORM

We deliver the full spectrum: multiple biometric technologies on one powerful platform, integrated with all major security providers.

(4) PARTNERSHIP BEYOND THE PROJECT

For us, winning a project is only the beginning. Long-term service & support is what truly separates the wheat from the chaff.

(5) THE VALUE OF A QUALITY INVESTMENT

More performance & flexibility – less risk

LET'S GET TO WORK



TRUST BIOMETRICS
SERVICES **COMPETENCE**
SPECIALIST FLEXIBILITY QUALITY
HOSPITALITY **TBS** TERMINALS
TRUST BIOMANAGER
TOP-REFERENCES SOFTWARE
SWISS **QUALITY**
DURABILITY RELIABILITY SERVICES **LONGTERM**
TOUCHLESS SECURITY
MANUFACTURER COMPETENCE

