

NEW AND  
ENHANCED DESIGN

Data Sheet

# DAKScommunicator 2



## Supports Mobile Workflows

Mobility is an essential component of today's world. Solutions focused on mobility change user experience and expectations. Access to services via intelligent and flexible mobile devices is increasingly crucial when it comes to gaining user acceptance.

Smartphones with specialized apps – possibly even a single device for both private and business use – can be a valid option in some cases, but that concept does not answer to every situation.

Often, the usability and reliability requirements of organizations call for different strategies.

The perfect answer to the challenges of modern mobile working environments

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**DAKS**  
... it's all about responsibility!

## Highlights of 'DAKScommunicator'

- Special robust, reliable and lightweight mobile device designed for mobile alerting purposes – e.g. for nurses, physicians, lone workers, elderly people, or visitors of special areas
- Easy to use with an optimum integration into the communications processes of the different workflows
- Wi-Fi based for building/campus-wide mobility
- Top-side display
- Telephony support (incl. hands-free) as well as voice- and text-based notifications
- User-friendly side keys to accept/reject messages or calls and for direct closed-loop notifications, even when the device stays in the pocket
- Emergency signaling by pressing one of the two large red alarm buttons as well as automatic alarms
- Wi-Fi-based in-house positioning
- Long lifetime including service and support, independent of the frequent innovation steps of standard smartphones and their operating systems (Android, iOS, Windows)
- High availability and reliability (including alarm signaling directly at the device when it cannot be reached by DAKS)
- Long battery lifetime
- Easy to clean and sanitize
- Low total cost of ownership (TCO)



**DAKScommunicator can either be used as an employee's only device or in addition to a smartphone or tablet, which can then be used flexibly for less critical services and functions.**

## Hardware Specifications

- Dimensions (L x W x H):  
10.4 cm x 6.7 cm x 1.1 bis 2.1 cm  
(4.09" x 2.64" x 0.43" to 0.83")
- Lightweight, under 110 g
- Wi-Fi module:
  - › 2.4 and 5 GHz
  - › IEEE 802.11a/b/g/n
  - › WPA2
- Two large alarm buttons (front and back)
- Accept/Reject buttons next to top display
- Two additional operating buttons (+/-)
- Top-side display (W x H):
  - › 0.8 cm x 5.4 cm (0.31" x 2.13")
  - › OLED technology
- Disinfectable
- › Intelligent 1x 16 or 2x 27 character text output (SIP-controlled, with output of own number, name and time in idle state)
- › 4 status icons indicating:
  - battery status
  - device status
  - Wi-Fi signal status
  - message or call status
- Microphone and speaker for listening-in, voice prompts, tones and telephony (including hands-free)
- Movement and position detector for automatic alarms
- Vibration motor for silent alerting
- Removable backside clip to attach to breast/side pocket or belt
- Internal battery for typical 36-hour operation
- Wireless charging
- Bluetooth 4.1 support (hard- and software option) for an iBeacon-, AltBeacon-, or Eddystone-based positioning
- Protection class: IP55
- Shock proof (1 m)
- Meets clinical sanitization requirements
- Accessories:
  - › Tabletop/wall-mount charger rack for up to 6 devices
  - › Tabletop charger for 1 device
- Certifications:
  - › CE for Europe
  - › Australia RCM in preparation
  - › Other countries on request

## Basic Configuration

The basic configuration of DAKScommunicator is done via a standard browser using the built-in web server and the built-in access point.

## Mobile Device Management

After the basic configuration, all further user-group specific settings are administrated in DAKS and downloaded imported into the devices.

This also includes language-specific voice announcements and text outputs as well as automatic software updates.

## DAKS Connectivity

The DAKScommunicator interface is based on SIP, with proprietary enhancements for the exchange of status, location, and alarm information.

All messages and telephone calls are routed through and controlled by DAKS and require no additional data interface.



## Notifications

Text and voice (alarm) notifications are carried out by means of SIP calls. This includes:

- Specific alerting signals and/or vibration alarm
- Speaker-phone control with protection against disallowed monitoring
- Interruption of ongoing calls where necessary
- Direct acknowledgment (positive/negative)
- Text messages: one or two lines depending on message length
- Voice messages, e.g. via optional DAKS Text-to-Voice engine
- Callback calls to patients (= DAKS option)
- Emergency conferences (= DAKS option)

## Connection Monitoring

The connection between DAKS and DAKScommunicator can be monitored.

This monitoring is activated either automatically when the device is lifted from its charger, or manually.

With monitoring activated, DAKScommunicator notifies the user via an alarm announcement, should the connection to DAKS be lost.

This is essential to ensure that vital messages reach the user and that the user can set off a distress call in an emergency.





## Manual and Automatic Alarms

DAKScommunicator is equipped with two large red alarm buttons (on front and back) for standard and silent alarm calls. Additionally, alarms can also be triggered automatically, with pre-alerting of the user through local voice announcements:

- man-down alarm
- no-movement alarm
- timeout alarm (cyclic)

When the battery is low, the device generates local warning announcements.

Every time the device is lifted from the charger, there is a mandatory check of the sensor and the alarm buttons.

## Positioning

DAKScommunicator supports Wi-Fi positioning with evaluation of the field strength and graphical outputs on hierarchical maps (= DAKS option).

Depending on the active privacy policy, positioning is possible:

- always,
- only when connection monitoring is activated,
- only when an alarm condition has occurred.

*Future versions will also support a Bluetooth LE based positioning for an even more accurate (room-precise) localization.*

## Local History Function

A local history allows the user to retrieve received text messages/calls even when there is no connection to the DAKS server.

For privacy reasons, this history can be deleted automatically when DAKScommunicator is returned to its charger.

