

Neutal, im Dezember 2020

Operating manual

DWS20 Standard or DWS20+

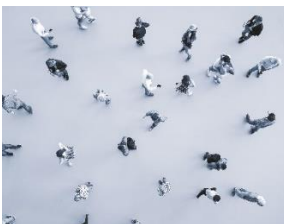


CORONA distance measuring with RSSI or UWB Technology

The SARS-CoV-2 virus is currently keeping all of humanity in suspense. To slow the spread of the virus, hygiene and keeping your distance are the main criteria. For us, the DISTANCE is the most important element and that's why we developed this very precise distance warning in record time.

HOW IT WORKS: The DWS20 activates (warns) if two or more people equipped with DWS20 come too close within the set minimum distance. The possible uses are unlimited, such as: in open-plan offices, production facilities, in sports such as skiing, ice skating or visiting museums and the like.

distance okay



distance not OKAY



DWS20 Standard is in two variation available.



DWS20 Standard

Technology: RSSI measure (Bluetooth)

Size: 80mm x 40mm x 15mm

Weight: 35gr

Battery runtime (ca.10h / Charging time)

Accuracy: +/- 50cm

DWS20+ Pro

Technology: UWB Measurement (+/- 5cm)

Size: 80mm x 40mm x 15mm

Weight: 35,4gr

Battery runtime (ca.10h / Charging time)

Accuracy: +/- 5cm

The DWS20 is delivered with the stand settings as described. A central app is used to set group functions, distance and ID number for several distance meters at the same time. The data is recorded to the full extent of the applicable data protection guidelines and is only read out by the data protection officer (DATBEAU) and transmitted to the responsible authorities in the event of positive cases.

The ID number, the CE mark and the necessary standards are attached to the rear of the DWS20 by means of labels.



Operating manual

Our DWS20 Standard and DWS20 + pro is delivered with the standard setting of 1.5 m distance. Especially in industry, leisure activities and cultural events where the devices are used specifically, the DWS20 is indispensable.

Delivery

The DWS20 is delivered fully charged. As long as the device is not switched on to the charging station or with the ON button, no distance is measured and consequently no alarm is triggered.



There can be 2 to 10 units on our carton

DWS 20+
Distance tracker Covid 19

„Safety & Tracking“

Function
<ul style="list-style-type: none"> Localization between user Impact & robust case -20to +50 Grad Celsius Distance controller

Signals
<ul style="list-style-type: none"> Light Signals Sound Signal Vibration

Connectivity
<ul style="list-style-type: none"> Bluetooth (RSSI) or UWB

Range
<ul style="list-style-type: none"> Distance controller for 6 feet COVID -19 regulation (adjustable)

Rechargeable & Transmit time
<ul style="list-style-type: none"> Individual programmable to customer 750 mAh Charging with micro USB Standby time: 12 hours

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OPERATION and use of the device

Our DWS20 is activated by briefly plugging in the micro USB cable (charger / FT TEC base station) or with the ON button. No additional peripheral devices are required for use when no recording but only warning signals are required.

The device is active as long as the following criteria are met

- The battery is charged (3 second interval flashing)
- Temperature is between -20 to 50 degrees Celsius
- The device is not in the charging station

When in use, the distance to other DWS is continuously measured with the DWS20 and DWS20 +. If the distance is too short and exceeds a certain period of time, the DWS20 triggers an alarm with light and beep signals. At the same time, the software records the time.

Depending on the device, the following alarms and signals can be recognized

- Advance warning through 3 red LED lights
 - After 3 seconds (adjustable), triggering the alarm and recording via
 - Flashing red
 - vibration (can be switched off)
 - Loud beep (can be switched off)












In the event of an alarm, the time frame of the shortfall is recorded and assigned to the ID number.

Repetition of this alarm scenario every time it falls below the limit (> 3sec)

When fully charged, the DWS20 + is ready for use for approx. 10 - 12 hours. If the battery charge falls below 50%, the DWS20 + flashes yellow every 3 seconds; if the charge falls below 30%, the DWS20 + flashes red every 3 seconds and beeps briefly every 30 seconds. The beeping can be acknowledged by briefly pressing the ON button.

If the battery charge falls below 30%, the DWS20 + should be charged soon.

If the distance to more than 450 other IDs is recorded, the DWS20 + will beep briefly every 30 seconds regardless of the battery charge. In this case, the DWS20 + should be connected to the charging station for synchronization for at least 10 minutes. The beeping can be acknowledged by briefly pressing the ON button. A maximum of 500 different IDs can be recorded in the DWS20 +.

Abstandsmessung			
Blink Signal	Pieps Signal	Abstand	Akkuladung
		None	ok
		None	ok
		1x short, every 30s	ok
	0,5s Pieps 0,5s Pause	To close to other units	-
 	 	1x short, every 30s	Memory is full, distance warning to more as 450 IDs.

Groups

With the DWS20 +, 255 different groups can be defined. Within a group, a different interval and a different pre-warning time can be defined or no alarm can be given at all.



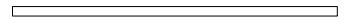
Alarm free zone

A DWS20 + can work as an alarm block device, then no distance measurements and alarms are carried out within the adjustable radius of this device. Use in toilet cubicles, for example.

Charging of units

The device contains a LI-ION battery. If the battery is only weakly charged, the device will indicate this status with a flashing RED. The device must now be connected to the charging device, the charging base station from FT TEC or any other charging source with MicroUSB. Based on the recorded data, however, the device should be charged in an FT TEC charging station or by an authorized data protection officer.

During charging, the LED flashes in red. If the device is fully charged, the color lights up GREEN for 1 minute, then the device switches off. When the plug is removed, the device starts automatically (adjustable).

Charging	
Blink Signal	Accu charging
	Charging
	100%
	100%

The charging area should be with an ambient temperature between +5 and +45 degrees Celsius. This ensures that the batteries are optimally charged.

Output of Devices

Issue and use of the devices at central points:

The devices are taken over in companies by the data protection officer. Each ID of the device can then be assigned to an employee in the company. These data are only available to the GF and the data protection officer.

There are also devices available for visitors to the company. These can be set up for the visitor by DATBEAU before the visit, or there is the option of logging in to the terminal supplied by FT TEC.

Use: The devices, if the company stipulates this, must be worn during the entire service time, shift or visit. If the programmed minimum interval is not reached by more than 1 second, the contact is recorded.

The employees as well as the visitors are to be entrusted with the careful handling of the device.

Taking back the device

In the company, the devices are placed in the designated charging station every evening, at the end of the shift or when leaving the company. The visitor's devices must be handed over to the reception desk before leaving the building. Data upload takes place immediately.

Evaluation of Data

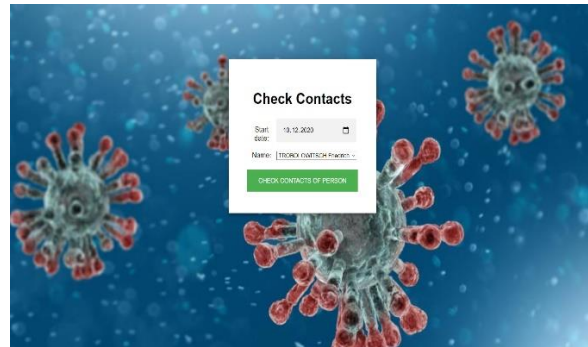
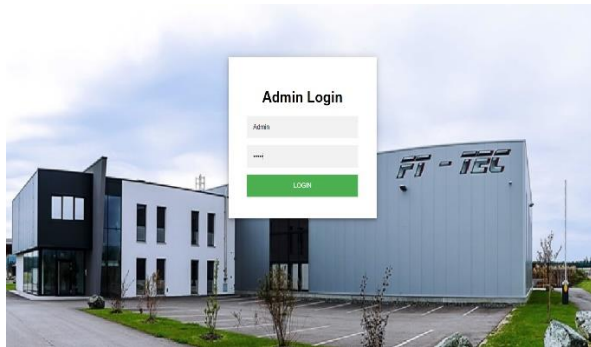
In general, the data is recorded anonymously. In the standard version, these devices can only be used as real distance meters. The following data is then recorded:

- How many devices were in contact that day.
- This allows you to infer the number of visitors present on that day.
- How many short distances were detected by this device and with which ID numbers this happened.
- How long was the total time under per respective ID number!

Evaluation of individual data:

The data is stored for 96 hours (adjustable) on a central database in the company. Only the company's management and DATBEAU have access to this database. If a positive case is known within 48 hours, the ID numbers are compared and the possibility of limiting the number of contacts to an exact number is given.

- Registration of the device in a company, club, theater, museum ... etc.
- Which devices had distance warnings and for how long
- Life evaluation of the data using our FT TEC basic charging station



List of contacts from TROBOWITSCH Friedrich (2020-12-10 till now)

Contact Name	Time
Mitarbeiter 11	9
Mitarbeiter 15	96
Mitarbeiter 20	10
Do Dez 17 2020	10
Mitarbeiter 21	128
Mitarbeiter 22	26
Mitarbeiter 25	76
Mitarbeiter 27	9
Mitarbeiter 28	46
Mitarbeiter 33	337
Mo Dez 14 2020	1
Mo Dez 14 2020	28
Mo Dez 14 2020	17
Mi Dez 16 2020	285
Do Dez 17 2020	7
Fr Dez 18 2020	1
Mitarbeiter 36	8
Mitarbeiter 5	9

Safety

- The DWS distance warning device can only be used to maintain the distance. The transmission of the SARS-COV2 cannot be prevented.
- Our device transmits radio waves on Bluetooth frequency or UWB. If you use other medical devices, this can lead to malfunctions. If medical devices are used, contact your doctor for clarification and approval of use.
- If you use a pacemaker or other medical devices, consult your doctor before using our device.
- Environmental influences can also affect our devices. Strongly metallic surroundings can have a shielding effect.
- The operating temperature range of our devices is between -20 and +50 degrees Celsius.
- Direct sunlight should be avoided.
- Due to the charging plug, our devices do not have an IP certification. It should therefore not be exposed to direct moisture, dust or water.
- Carrying it in a protective case (plastic) is okay and can be very helpful.
- Our devices are only designed for proper operation and carrying. It is forbidden to make any changes to the device, such as opening the housing, or inserting metallic objects.
- Do not carry out any repairs yourself, the device consists of a circuit board, battery and housing. Improper handling can lead to a malfunction of the DWS20.
- If the device overheats, is damaged or if it is deliberately dropped, stop using the DWS20 and send the device back to us for inspection.
- Dispose of the device in accordance with the applicable guidelines for electronic components with batteries. If you are unsure, send the device back to us at your own expense, we will take care of proper disposal.

Battery life and Care

- As with all current batteries, such as smartphones, electronic devices with built-in batteries, the battery discharges over time.
- If the battery is no longer charged, the device can suffer permanent damage.
- Make sure that the battery is always stored at an ambient temperature (10 to 40 degrees) in order to prevent it from discharging too quickly.

Accu warning

As with all rechargeable batteries, improper handling of the device can lead to chemical heating or fire.

- Only charge our devices with chargers with the CE mark, USB hubs or our optional charging stations.
- The manufacturer accepts no guarantee or warranty in the event of improper handling

TECHNICAL DATA

Name of product:	DWS20 or DWS20+ distance warner
Size of units:	80mm x 40mm x 15mm
Chase material:	PC (Polycarbonate)
Transmitter technology:	Bluetooth (RSSI) or UWB
Transmitter frequency UWB:	3774 – 4242,2 MHz
Transmitter frequency Bluetooth	2,4GHz
Band width:	499,2 MHz
Power transmission:	max .70dbm / MHz
Accu Technology:	Li-Lion
Capacity:	750mAh
Charging power:	200mA
Charging cycle:	> 300 Charging cycle
Voltate:	3,7 V
External interface:	microUSB
Temperature range:	-20°C bis +50°C
Temperatur range charging:	5°C bis +45°C
Storage temperature:	-20°C bis +60°C
Weight DWS20:	35gr
Weight DWS20+ (Pro)	35,4gr

Producer:
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