



## Remote Speaker Microphone RSM-EX01B..-D2NAM-1BBL...ST

- Extremely long operating times with high voice volume – Up to 78 hours
- Outstanding volume and sound performance – Up to 103 dB
- Good operability, even with gloves
- Lone worker ready (optional SOS button)
- Additional multi-functional buttons and a dedicated SOS button
- 2200 mAh Li-ion battery pack for a long operating time
- Linguistic feedback when changing individual modes
- Magnetic charging cable and optional charging cradle
- IoT Ready: "Custom Service Load" allows individual button settings for sending custom commands to servers and other IoT switches - e.g. to open a gate (only for Ex-Handy 10 Series)

RSM-Ex 01, Bluetooth, Division 1, version for Northern America



### Connection

Division 2



### Technical Data

#### Indicators/operating means

Key

Push-to-talk button operable with thick gloves  
Front-facing multi-function button  
Volume up / down  
Channel up / down  
On/Off switch  
Red Button

#### Audio data

Sound level

up to 103 dB

#### Electrical specifications

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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## Technical Data

|                                  |                                                                                                                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Battery type                     | Li-Ion battery<br>3.7 V<br>2200 mAh                                                                                                                                                       |
| Operating duration               | Stand-by time: approx. 74 h<br>Actual use/operating time depending on use and set sound level<br>(See table "Run times")                                                                  |
| <b>Interface</b>                 |                                                                                                                                                                                           |
| I/O ports                        | 3.5 mm jack connection                                                                                                                                                                    |
| <b>Communication</b>             |                                                                                                                                                                                           |
| Bluetooth                        | yes                                                                                                                                                                                       |
| NFC                              | yes                                                                                                                                                                                       |
| <b>Software</b>                  |                                                                                                                                                                                           |
| Applications                     | ECOM Standard                                                                                                                                                                             |
| <b>Ambient conditions</b>        |                                                                                                                                                                                           |
| Ambient temperature              | -20 ... 60 °C (-4 ... 140 °F)                                                                                                                                                             |
| <b>Mechanical specifications</b> |                                                                                                                                                                                           |
| Degree of protection             | IP64 according to EN/IEC 60079-0 (ATEX/IECEX)<br>IP 67 following EN/IEC 60529 (industrial standard)                                                                                       |
| Mass                             | 249 g                                                                                                                                                                                     |
| <b>Dimensions</b>                |                                                                                                                                                                                           |
| W x H x D                        | 8 cm x 12 cm x 2.5 cm<br>Including mounting clip: 8 cm x 12 cm x 3.2 cm                                                                                                                   |
| Height                           | 12 cm                                                                                                                                                                                     |
| Width                            | 8 cm                                                                                                                                                                                      |
| Depth                            | 2.5 cm                                                                                                                                                                                    |
| <b>International approvals</b>   |                                                                                                                                                                                           |
| <b>SGS approval</b>              |                                                                                                                                                                                           |
| SGS certificate                  | SGSNA/20/SUW/00138X                                                                                                                                                                       |
| SGS marking                      | CI I, II, III, Division 2, Groups A-G, T4<br>CI I Zn 2, AEx ic IIC T4 Gc<br>CI II Zn 22, AEx ic IIIC T135°C Dc<br>Ex ic IIC T4 Gc<br>Ex ic IIIC T135°C Db<br>Ta = -20 °C to +60 °C, IP 64 |
| <b>IECEX approval</b>            |                                                                                                                                                                                           |
| IECEX certificate                | IECEX IBE 20.0004X                                                                                                                                                                        |
| IECEX marking                    | Ex ia IIC T4 Ga<br>Ex ia IIIC T135°C Db IP 64<br>Ex ia I Ma                                                                                                                               |
| Approved for                     | Northern America                                                                                                                                                                          |
| <b>General information</b>       |                                                                                                                                                                                           |
| Scope of delivery                | RSM-Ex<br>Charging cable<br>Charger<br>Safety instructions<br>Documentation                                                                                                               |

## Accessories

Accessories for this product can be found on the internet at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).

Operation

Run times\*\*

| Use time in %<br>with typical user profiles<br>speak/hear/standby                     | 100%<br>(Level 15 media;<br>Level 8 phone call) | 75%<br>(Level 10 media;<br>Level 4 phone call) | 25%<br>(Level 3 media;<br>Level 2 phone call) |
|---------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------|
| 5 / 5 / 90                                                                            | 50 h                                            | 64 h                                           | 71 h                                          |
| 25 / 25 / 50                                                                          | 22 h                                            | 44 h                                           | 64 h                                          |
| 50 / 50 / 0                                                                           | 13 h                                            | 31 h                                           | 57 h                                          |
| **determined runtimes on the Smart-Ex 02 based on RSM-Ex 01 BT software version 1.0.0 |                                                 |                                                |                                               |

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