



Smartphone



Smart-Ex02-ROWDZ1MAI-ANDC00..

- Replaceable SIM
- Global certificates - a common hardware platform
- Wireless connections such as WWAN, 4G LTE, WLAN and Bluetooth®
- Android™ Enterprise Recommended verified device
- GPS
- NFC technology for wireless applications
- Service contract
- Special buttons for lone worker protection (LWP) applications
- Programmable hardware buttons
- Android™ 11 operating system

Smart-Ex 02 DZ1M (DIV 1 and Zone 1/21), latest available Android version, with camera, version for Europe / Mining



Technical Data

| General specifications | |
|----------------------------|--|
| Description | Intrinsically safe smartphone certified for Mining |
| Hardware | |
| Processor | Qualcomm Snapdragon 450 |
| RAM | 3 GByte |
| Camera | |
| Front camera | 5 MP |
| Main camera | 12 MP with autofocus and LED flash |
| Video recording resolution | 1080p, 720p, 480p (main camera) |
| Optional data memory | Micro SD flash card up to 128 GByte |
| Internal data memory | 32 GByte |
| Speaker | Forward facing main speaker with Gore® cone |
| Microphone | Dual-mic solution with three selectable background noise suppression options |
| Indicators/operating means | |
| Display | Extreme shock and scratch resistant Gorilla® Glass with glove touch and wet mode |
| Touchscreen technology | Capacitive multitouch |
| Screen diagonal | 12.7 cm |
| Resolution | 720 x 1280 pixels |
| Key | PTT / Alarm / Power / Multifunction / Volume / Hardware buttons for Android features |
| Electrical specifications | |
| Battery type | Li-Ion battery 16.28 WH 3.7 V 4400 mAh |
| Operating duration | LTE standby time: up to 350 h |
| Communication | |
| Mobile standard | |
| 2G | GSM: 850 MHz, 900 MHz, 1800 MHz, 1900 MHz |
| 3G | UMTS: 850 MHz, 900 MHz, 1700 MHz, 1900 MHz, 2100 MHz |
| 4G | LTE FDD: B1, B2, B3, B4, B5, B7, B8, B11, B12, B13, B20, B21, B25, B26, B28, B66, B71 LTE TDD: B38, B39, B40, B41 |
| WLAN | 802.11 a/b/g/n/ac/e/k/r/h (2,4 GHz + 5 GHz) |
| Bluetooth | Bluetooth® 4.2 |
| GPS sensor | GPS, A-GPS, Glonass, Beidou, Galileo |
| NFC | yes |

Release date: 2022-06-01 Date of issue: 2022-06-01 Filename: 480986-100044_eng.pdf

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

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Technical Data

| | |
|--|--|
| SIM card | Dual Nano-SIM |
| Software | |
| Operating system | Android™ 11 Android™ Enterprise Recommended verified device |
| SMS/MMS | yes |
| Ambient conditions | |
| Ambient temperature | -20 ... 60 °C (-4 ... 140 °F) |
| Mechanical specifications | |
| Degree of protection | IP68 , MIL-STD-810G |
| Connection | 7-pins water-proof magnetic USB 2.0 port 3.5 mm jack connection with special ecom mounting solution |
| Mass | approx. 380 g |
| Dimensions | |
| W x H x D | 82 mm x 163 mm x 22 mm |
| Data for application in connection with hazardous areas | |
| ATEX approval | |
| ATEX certificate | EPS 19 ATEX 1 255 X |
| ATEX marking | Ⓜ I M1 Ex ia op is I Ma IP64 |
| International approvals | |
| IECEX approval | |
| IECEX certificate | IECEX EPS 19.0114X |
| IECEX marking | Ex ia op is I Ma IP64 |
| Approved for | Europe , Mining |
| General information | |
| Note | Android is a trademark of Google LLC. |
| Scope of delivery | Smart-Ex® 02 Li-Ion battery Charger USB cable Screwdriver Documentation |

Accessories

| | | |
|---|--|--|
|  | RL ID01 | Retractable lanyard |
|  | Ex-BP S02 | Battery pack |
|  | SUCTION CUP HOLDER | Suction cup holder for Smart-Ex 02 and Ex-Handy 10 |
|  | LH S02 | Leather holster |
|  | TC S02 Travel Charger (EU/UK/US/AU) | Travel charger |
|  | TORX T8 SCREWDRIVER | Torx screwdriver for Smart-Ex® 02 and Ex-Handy 10 |
|  | EXT-C2LCOIL | Clip2Loop coil tether |
|  | LC S02 | Leather case for Smart-Ex® 02 |

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 **PEPPERL+FUCHS**

Accessories

| | | |
|---|----------------------------|---|
|  | MINI QD LOOP | Mini QD loop |
|  | DS S02 | Docking station |
|  | CC S01-R | Car charger |
|  | BC-Ex | Belt clip with QuickFix |
|  | ST 01 | Stylus pen |
|  | DC EX-BP S02 | Battery pack charger for Ex-BP S02 &BP S02 |
|  | CR-EX S02 | Cradle for Smart-Ex® 02 |
|  | Tether ST 01 Stylus | Stylus tether |
|  | PC S02 | USB Charging Cable for Smart-Ex 02, Ex-Handy 10 and Pocket Unit PU-Ex V01 |
|  | SC-Ex | Spring clip with 4QuickFix |