



# Smartphone



## Smart-Ex02-ROW-DZ1AIC-ANDCES..

- 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
- Programmable hardware buttons
- Special buttons for lone worker protection (LWP) applications
- Android™ 11 operating system

Smart-Ex 02 DZ1 (DIV 1 and Zone 1/21), latest available Android firmware release, with camera and eSENTINEL app, global version



### Technical Data

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
SIM card	Dual Nano-SIM
Software	





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

## Technical Data

Operating system	Android™ 11 Android™ Enterprise Recommended verified device
SMS/MMS	yes
<b>Ambient conditions</b>	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
<b>Mechanical specifications</b>	
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
<b>Dimensions</b>	
W x H x D	82 mm x 163 mm x 22 mm
<b>Data for application in connection with hazardous areas</b>	
ATEX approval	
ATEX certificate	EPS 19 ATEX 1 068 X
ATEX marking	Ⓜ II 2G Ex ib op is IIC T4 Gb IP64 Ⓜ II 2D Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
<b>International approvals</b>	
SGS approval	
SGS certificate	CI I, II, III, Division 1 Group A-G T4 IP 64 Ex ib op is IIC T4 Gb Ex ib op is IIIC T120°C C Db CI 1 Zn 1, AEx ib op is IIC T4 Gb Zn 21, AEx ib op is IIIC T120°C Db Ta = -20 °C to +60 °C, IP 64
IECEX approval	
IECEX certificate	IECEX EPS 19.0031X
IECEX marking	Ex ib op is IIC T4 Gb IP64 Ex ib op is IIIC T120°C Db Ta = -20 °C to +60 °C
Approved for	Albania, Australia, Austria, Azerbaijan, Belgium, Bosnia-Herzegovina, Brunei, Bulgaria, Canada, Ceuta, Croatia, Czech Republic, Denmark, Egypt, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, India, Iraq, Ireland, Israel, Italy, Kuwait, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malaysia, Malta, Mexico, Montenegro, Myanmar, Netherlands, New Zealand, Norway, Oman, Peru, Philippines, Poland, Portugal, Romania, Saudi Arabia, Serbia, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Thailand, Turkey, United Arab Emirates, United Kingdom, Uzbekistan, Vietnam, USA
<b>General information</b>	
Note	Android is a trademark of Google LLC.
Scope of delivery	Smart-Ex® 02 Li-Ion battery Charger USB cable Screwdriver Documentation eSENTINEL app

## Accessories

	<b>EXT-C2LCOIL</b>	Clip2Loop coil tether
	<b>RL ID01</b>	Retractable lanyard
	<b>SUCTION CUP HOLDER</b>	Suction cup holder for Smart-Ex 02 and Ex-Handy 10
	<b>LH S02</b>	Leather holster















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**PEPPERL+FUCHS**

## Accessories

	<b>MINI QD LOOP</b>	Mini QD loop
	<b>TC S02 Travel Charger (EU/UK/US/AU)</b>	Travel charger
	<b>CR-EX S02</b>	Cradle for Smart-Ex® 02
	<b>TORX T8 SCREWDRIVER</b>	Torx screwdriver for Smart-Ex® 02 and Ex-Handy 10
	<b>BC-Ex</b>	Belt clip with QuickFix
	<b>DS S02</b>	Docking station
	<b>LC S02</b>	Leather case for Smart-Ex® 02
	<b>CC S01-R</b>	Car charger
	<b>DC EX-BP S02</b>	Battery pack charger for Ex-BP S02 & BP S02
	<b>Ex-BP S02</b>	Battery pack
	<b>ST 01</b>	Stylus pen
	<b>Tether ST 01 Stylus</b>	Stylus tether
	<b>PC S02</b>	USB Charging Cable for Smart-Ex 02, Ex-Handy 10 and Pocket Unit PU-Ex V01
	<b>SC-Ex</b>	Spring clip with 4QuickFix