Increasing productivity.
Improving data quality.
Reducing costs.

Smartphone and Featurephone
for use in hazardous areas
Use Synergies. For Mobility Beyond Company Boundaries.

Industry 4.0 and IIoT create unique opportunities and challenges. ecom from Pepperl+Fuchs offers mobile solutions to help users master the requirements of networked operating and production processes.

The whole is more than the sum of its parts. Processes can only run smoothly when the individual elements of a digitized solution are coordinated and users can exploit their full potential.

Exploring Mobility

Companies are aware of the capability of mobility solutions and the impact they can have on operations, reducing cost and improving efficiency. Game-changing new devices are enabling breakthroughs in workforce productivity, data quality and the speed and accuracy of decision making.

The world’s first and most used Intrinsically Safe 4G/LTE Smartphone, the Smart-Ex® 01/Ex-Handy 09 is based on an Android operating system. These devices are unlocked and SIM free, offering a reliable connection to any network worldwide. The 9th generation of the Intrinsically Safe cell phones from ecom certified and approved for use in Zone 1 & DIV 1 as well as mining incl. dust Ex-areas.

Android™ – das beliebteste Betriebssystem

ANDROID™ enables this intrinsically safe device to be used in hazardous areas without any compromises, especially when compared to conventional smartphones, for these applications and many more.

With the online integration and the use of a variety of applications, the Smart-Ex® 01/Ex-Handy 09 & 209 allows an efficiency potential and access to productivity and safety applications:

- Collaborative Working
- Audits & Inspection
- Operator Rounds
- Asset Tracking
- Condition Monitoring
- Process Automation
- Indoor / Outdoor Tracking & Navigation
- Safety / Security Management
- Man Down - Lone Worker Protection
- Push to talk function
- Camera / Video

Android™ is the most popular operating system.

Accessories

Compatible with

BC S01 Belt Clip
LC H09 / LC S01 Leather Case
LH H09 / LH S01 Leather Holster
Ex-RSM Aurelis BT Bluetooth Speaker Microphone
Smart Muff Wireless Headset
3m™ Peltor™ WS™ ProTac XP Ex BT hearing protection headset
DC-M S01 4-bay Desktop charger
DC S01 Desktop Charger
Com Com Ex In-Ear Headset
Serenity SPC In-Ear Headset
Intrinsically safe Smartphone Smart-Ex® 01 and Featurephone Ex-Handy 09

Companies are aware of the capability of mobility solutions and the impact they can have on operations, reducing cost and improving efficiency. Game changing new devices are enabling breakthroughs in workforce productivity, data quality and the speed and accuracy of decision making.

- Capacitive multi-touch screen
  - 4.0“ (Smart-Ex® 01, 201, Mining)
  - 2.6” (Ex-Handy 09, 209)
- Glove Touch Screen
- High Visibility Display in Direct Sunlight
- MIMO-antenna
- 4G / LTE cellular network connectivity
- Capacitive multi-touch screen
  - 4.0“ (Smart-Ex® 01, 201, Mining)
  - 2.6” (Ex-Handy 09, 209)
- made of extreme shock and scratch resistant Gorilla Glass® 2
- High Visibility Display in Direct Sunlight
- Programmable hardware buttons
  - Lone Worker Protection-Funktion (App solution)
  - Push-to-Talk (App solution)
- Android™ – Operating system
  - Android 5.1.1 (Smart-Ex® 01, 201, Mining)
  - Android 4.4.4 (Ex-Handy 09, 209)
- NFC
- 8 MP camera with auto focus (Smart-Ex® 01, 201, Mining)
- 5 MP camera with auto focus (Ex-Handy 209)
- Quality Pictures in bad light condition
- Torchlight function
- 1 MP Front camera (Smart-Ex® 01, 201, Mining)
- Connectivity
  - Bluetooth® 4.0 incl. BLE (Bluetooth Low Energy)
  - WIFI 802.11 a / b / g / n
  - GPS, GLONASS

All details about Ex-Handy 09 and Smart-Ex® 01 series can be found at www.ecom-ex.com
Connectivity – fast and flexible

As private 4G / LTE wireless connectivity is increasingly adopted within hazardous areas, Tab-Ex® 01 ensures access is fast and seamless – enabling users to quickly access the information needed to perform the task at hand. And, for sites with WiFi access or no wireless access, Tab-Ex® 01 provides the flexibility to meet your needs - preventing costly infrastructure updates.

ecom’s Mobile Worker Concept

Central to ecom’s Mobile Worker concept, up-to-date Bluetooth standards are also supported by Tab-Ex® 01, allowing real-time connectivity to both Bluetooth SmartReady Low Energy 4.0 (BLE) devices as well as older legacy Bluetooth devices.

This allows the mobile worker to benefit from expanded Tab-Ex® 01 capabilities such as data collection and measuring/monitoring devices, headsets, AutoID, and Bluetooth Beacons for localization.

Lone Worker Protection (LWP)

LWP ready for Mobile Worker 4.0

- Easy to integrate in many partner server systems
- Location based services are available
- Interactions with different Applications at the same time run smoothly
- OTA upgrades running well - not only for LWP
- Data interaction between control center and end-user is possible

Smart-Ex® 01/01 M/201 & Ex-Handy 09/209

- The LWP Application is running beside the operating system
- The use of Android Apps reduces costs
- Quad core processor divides all services
- In case of a processor malfunction, 3 backup processors ensure that all services are available instantly

Push-to-Talk (PTT)

PTT over IP is a service providing group communication like Two-Way Radio communication systems (TETRA, DMR and the classic analogue PMR).

Existing systems can be easily substituted, including DECT systems

Benefits

- Individual Call
- Group Call
- Messages
- GPS Tracking
- Calls History Including Voice Recording
- Order Management System with NFC, QR Code
- Status Messages
- Data Transfer.

For an overview of application possibilities, visit: https://www.ecom-ex.com/apps/
Your automation, our passion.

Explosion Protection
- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex® Fieldbus
- Remote I/O Systems
- Electrical Ex Equipment
- Purge and Pressurization
- Industrial HMI
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

Industrial Sensors
- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Fieldbus Modules
- AS-Interface
- Identification Systems
- Displays and Signal Processing
- Connectivity