



PROCESS AUTOMATION



SCANEX

**Industrial plant data collection for the
process automation in the hazardous area
Category II 2G (zone 1 + 2)
and II 3D (zone 22)**



SCANEX - INTRINSICALLY SAFE BARCODE READERS

EXI CABLE READERS

The SCANEX family of rugged, industry-standard, barcode reading systems from Pepperl+Fuchs EXTEC is the ideal solution for computerized plant data collection in the hazardous area. It comprises an intrinsically safe, hand-held reader with a laser scanner and a hand-held reader with radio data transmission and a rechargeable battery for mobile applications, while a stationary miniature scanner completes the product range.

The devices are capable of reading more than 15 of the most common barcode families in industrial use, from 2/5 Interleaved to Code 128.

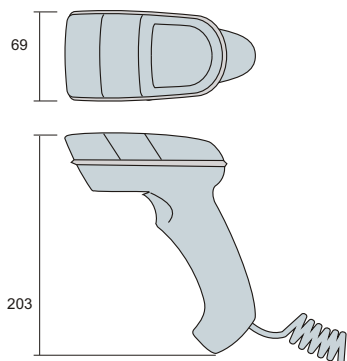
The barcode readers can be connected directly to:

- **TERMEX** (IS operator terminals)
- **PCEX/VISUEX** (Panel PC solutions)
- **iPC-EX** (PC operator stations)
- **Stand-alone solutions** to the host system via serial and keyboard interfaces in the safe area.

EX-DRAGON-D101 AND EX-DRAGON-D101-LR

The EX-Dragon Exi hand-held scanner is specially designed for plant data collection in the hazardous area. The scanner is offered in two variants for different reading distances. The standard model is capable of reading barcodes at a distance of up to 1100 mm, while the long-range version reads at up to 2250 mm. All standard barcodes are supported, making the EX-Dragon an universal choice. It goes without saying that the scanner is supplied in a sturdy case with rubber edges that complies with the IP 53 degree of protection and survives even the toughest of environments. The barcode data is processed by a decoder integrated in the case and transferred to the host system in ASCII format.

In addition, the barcode reader can be configured easily by reading in system barcodes, in order to customize the data interface to specific applications.

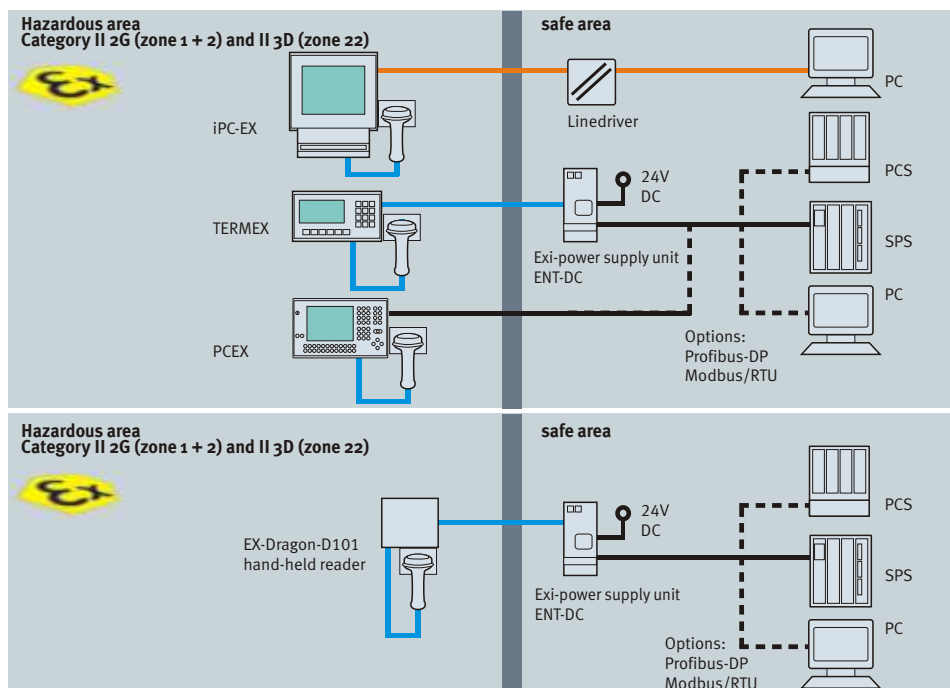


EXI-CABLESCANNER EX-DRAGON-D101

- II 2G EEx ib IIC T4, II 3D EEx ib IIC T4, degree of protection: IP 53
- Ex approval: BVS 03 ATEX E 362
- Temperature range: 0 °C to +40 °C
- Reading distance: approx. 60 - 1100 mm (standard version)
- All standard barcode families supported

EXI-CABLESCANNER EX-DRAGON-D101-LR (LONG RANGE)

- II 2G EEx ib IIB T4, II 3D EEx ib IIC T4, degree of protection: IP 53
- Ex approval: BVS 03 ATEX E 362
- Temperature range: 0 °C to +40 °C
- Reading distance: approx. 250 - 2250 mm
- All standard barcode families supported





EXI RADIO SCANNER

EX-DRAGON-M101

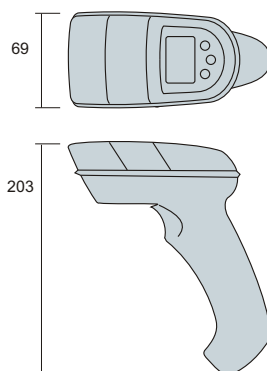
The EX-Dragon-M101 intrinsically safe barcode reader enhances the productivity and flexibility of plant data collection applications in the hazardous area.

The EX-Dragon-M101 is a cordless hand-held reader with online radio transmission for battery operation. It can be operated remotely without a license up to 50 m from the EXOM-Dragon or OM-Dragon radio base station. There are no trailing cables to get in the way. Its light weight and ergonomic design make the EX-Dragon ideal for mobile, cordless data collection. The industrial ABS case with rubber edges is extremely sturdy and capable of withstanding tough conditions as well as falls from a height of 1.50 m. The integrated display and controls facilitate bidirectional data transfer and user guidance. The NiMH batteries have a life of up to 30,000 read operations.



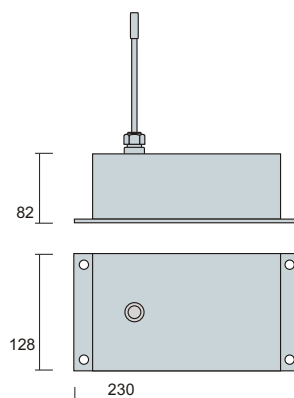
EXI RADIO SCANNER EX-DRAGON-M101

- Ex II 2G EEx ib IIC T4, Ex II 3D EEx ib IIC T4,
- Degree of protection: IP 53
- Ex approval: BVS 03 ATEX E 282
- Max. reading distance: 1100 mm
- Approx. 30,000 read operations with one battery charge
- Ergonomic reader design
- Max. radio radius: 50 m
- Radio frequency: 433.92 MHz (no license required)
- Transmitting power: < 10 mW
- Temperature range: 0 °C to +40 °C
- Weight: approx. 440 g

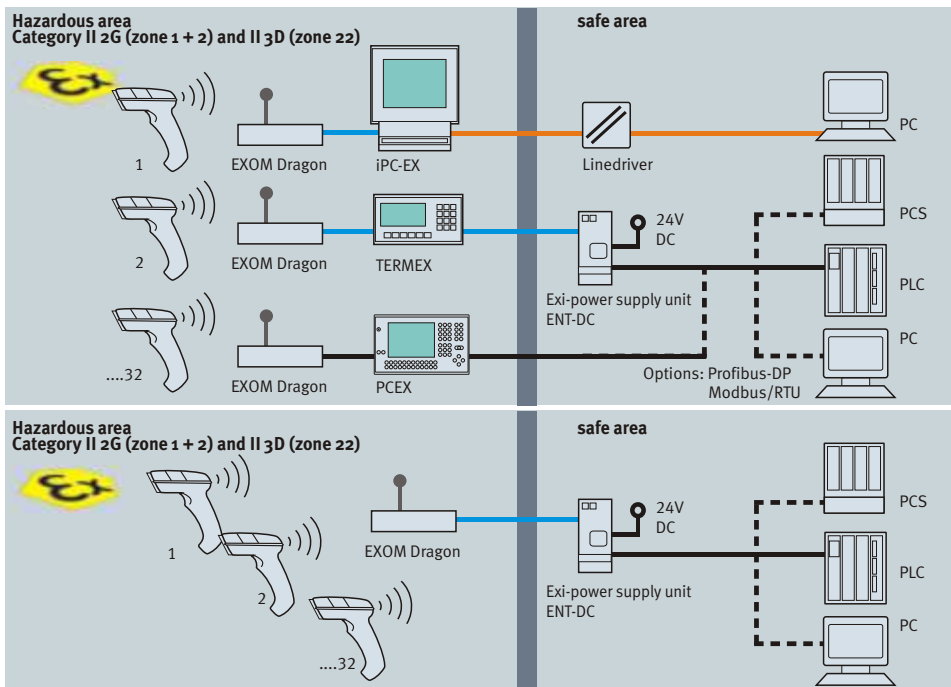


EXOM-DRAGON EXI BASE STATION

- Ex II 2G EEx ib IIC T4, Ex II 3D EEx ib IIC T4,
- Degree of protection: IP 65
- Ex approval: BVS 03 ATEX E 282
- Temperature range: 0 °C to +50 °C
- Connection distance: max. 400 m from the host system



EXOM-Dragon
radio base station



SCANEX - INTRINSICALLY SAFE BARCODE READERS

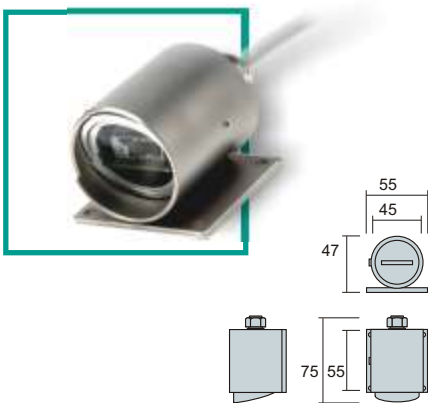
INTRINSICALLY SAFE EXI MINIATURE SCANNER

EX-NANO80A, FOR AUTOMATIC PLANT DATA COLLECTION IN THE HAZARDOUS AREA

The EX-NANO80A intrinsically safe barcode reader facilitates safe and automatic collection of plant data in the hazardous area. The EX-NANO80A is a miniature laser scanner for stationary installation. It can be connected either directly to an operator terminal (e.g. TERMEX) or to a remote computer up to 160 m away. Owing to its compact design and its rugged construction, the EX-NANO80A is ideal for the harsh environments that prevail in the chemical industry. All standard barcode families can be read.

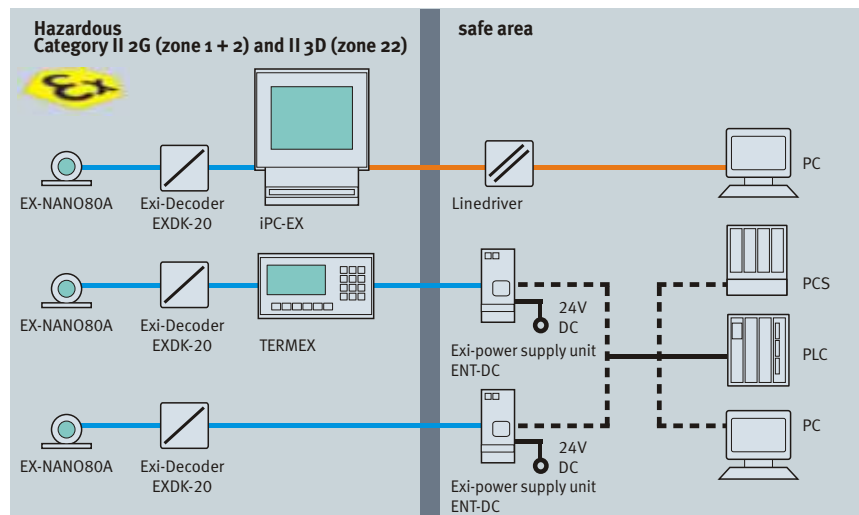
EXI-MINISCANNER EX-NANO80A

- II 2G EEx ib IIC T4, II 3D EEx ib IIC T4
- Degree of protection: IP 65
- Ambient temperature: -20°C TO +55°C
- Reading distance:
max. 750 mm, min. 100 mm
- Dimensions (LxWxH): 75x55x47 mm
- Weight: 400 g incl. cable
- Scanning rate: 39 Scans/S
- Connecting cable: 1,8 m
- Readable barcodes:
Code 39, 2/5 Interleaved,
EAN/UPC, Code 128, Codabar



EXI-DECODER EXDK-20-DEC2

- II 2G EEx ib IIC T4, II 3D EEx ib IIC T4
- Degree of protection: IP 65
- Sturdy aluminum case (LxWxH): 122 x 122 x 80 mm
- Microprocessor system with integrated setup program
(configured by means of the terminal program in the safe area)
- Connection distance: max. 160 m from the host system (ENT-DC)



www.pepperl-fuchs.com

Phone +49 621 776-2222 · Fax +49 621 776-27-2222 · E-Mail: pa-info@de.pepperl-fuchs.com

Worldwide Headquarters

Pepperl+Fuchs GmbH · Königsberger Allee 87
68307 Mannheim · Germany
Phone +49 621 776-0 · Fax +49 621 776-1000
E-mail: info@de.pepperl-fuchs.com

USA Headquarters

Pepperl+Fuchs Inc. · 1600 Enterprise Parkway
Twinsburg, Ohio 44087 · USA
Phone +1 330 4253555 · Fax +1 330 4254607
E-mail: sales@us.pepperl-fuchs.com

Asia Pacific Headquarters

Pepperl+Fuchs Pte Ltd. · P+F Building
18 Ayer Rajah Crescent · Singapore 139942
Company Registration No. 199003130E
Phone +65 67799091 · Fax +65 68731637
E-mail: sales@sg.pepperl-fuchs.com

PEPPERL+FUCHS
SIGNALS FOR THE WORLD OF AUTOMATION