

IDM161-BT-ex Art. No. 249910



- Wireless Bluetooth scanner for all 1D barcodes
- Certified acc. to ATEX and IECEx for zones 1, 2, 21, 22
- Compatible with R. STAHL's SHARK, MANTA, EAGLE and RAPTOR HMI device platforms

MY R. STAHL IDMEXA



R. STAHL's IDM161-BT-ex barcode scanners are ATEX and IECEx certified for hazardous zones 1, 2, 21 and 22. They read all common 1D barcodes and confirm the reading process acoustically with a beep, visually with LED and with vibration. These explosion-protected HMI devices are all-round designed to meet industrial requirements: their compact enclosure with IP65 is extremely robust - it can withstand up to 50 drops onto concrete from a height of 2 m. The scanner transmits the data wirelessly via Bluetooth.

### Technical Data

General	
Technology	Peripherals
Special version	Bluetooth wireless scanner
Version	Linear imager scanner
Barcode types	one-dimensional 1D (barcode)
Base loading station	IDMx61-BT-Base-Z1 IDMx61-BT-Base IDMx61-Base
WebCode	IDMEXA
Explosion Protection	
Ex version	Yes
Application range (zones)	1, 2, 21, 22
Scope	EU (CE / ATEX) International (IECEx)
IECEx gas certificate	IBExU16ATEX1002
ATEX gas certificate	IECEx IBE 16.0002
IECEx gas explosion protection	Ex ib IIC T4 Gb
IECEx dust explosion protection	Ex ib IIIC T135°C Db
ATEX gas explosion protection	II 2 G Ex ib IIC T4 Gb
ATEX dust explosion protection	II 2 D Ex ib IIIC T135°C Db
Electrical Data	
Rated operational voltage DC	3.6 V
Power consumption DC	330 mA (stand-by 80 / 130 mA; peak 500 mA)
Interfaces	Interface support (via supply module): RS-232 / RS-422 / USB
Battery power	approx. 60 scans when fully loaded
Bluetooth	Yes
Bluetooth function	Bluetooth V2.1 EDR, Class 2

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### Electrical Data

Bluetooth range	approx. 30 m
Bluetooth frequency	2.4 ... 2.4835 GHz (ISM band)
Battery	Lithium ion battery 3.6 V; 2250 mAh or 1500 mAh
Light source	Visible red light, 630nm
Scan frequency	500 Hz
Reader distance	20 ... 850 mm
Code resolution	approx. $\geq 0.076$ mm (depending on code)
Resistance to light interference	100 000 lx
Status LED	optical: 2x LED (operating status / read confirmation) acoustic: beeper / buzzer (can be switched off) vibration

### Auxiliary Power

Power supply	Via battery
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### Ambient Conditions

Ambient temperature	-20°C ... +50°C
Storage temperature	-30°C ... +70°C
Relative humidity	$\pm 95$ % , non-condensing
Shock resistance	50 drops from a height of 2 m onto a concrete surface

### Mechanical Data

Front enclosure protection type (IP)	IP65
Rear enclosure protection type (IP)	IP65
Enclosure material	Plastic
Connection cable	at ReaderBox-054-* VB-IDMx6x-Base-RS232-SR-1.8m-Z1 at VM125-ex-RS232-* VB-IDMx6x-Base-VM-RS232-1.8m-Z1 at VM125-ex-USB-* VB-IDMx6x-Base-VM-USB-1.8m-Z1
Width	104 mm
Height	185 mm
Depth	76 mm
Dimensions (WxHxD)	104 mm x 185 mm x 76 mm
Weight	260 g
Weight	0.57 lb

### Accessories

#### Adapter Cable

	Art. No.
<b>VB-IDMx6x-SOCKET-RS232-0.5m</b> Adapter cable for IDMx6x scanner, display xx8 <--> IDMx6x connection cable, open ends to binder coupling for interface RSi-232 (xx8), cable length: 0.5 m straight	254452

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**Base stations scanner**

**Art. No.**

<b>IDMx61-Base-A</b> Base station for handheld scanner IDMx61-BT, no Bluetooth, Non-Ex, wireless loading station, loading in safe area	275761
<b>IDMx61-Base-A</b> Base station for handheld scanner IDMx61-BT, no Bluetooth, Non-Ex, wireless loading station, loading in safe area	275761
<b>IDMx61-BT-Base-A</b> Base station for handheld scanner IDMx61-BT, Bluetooth, Non-Ex, wireless access and loading station, Bluetooth, loading in safe area	275760
<b>IDMx61-BT-Base-A-Z1</b> Base station for handheld scanner IDMx61-BT, Bluetooth, zone 1, wireless access and loading station, Bluetooth, loading in zone 1	275759
	310747
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**Battery**

**Art. No.**

<b>IDMx6x-BT-ex-LionX</b> Replacement battery (Li ions) for IDMx6x-BT-ex	283128
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Connection Cable	Art. No.
<b>VB-IDM160-RS232-SR-1.8m</b> Connection cable for IDM160, connection to ReaderBox or SHARK xx8-RSi, interface RS-232, Ex i 5.6 V cable length 1.8 m, straight, Binder plug	224085
<b>VB-IDM160-RS232-SR-3.6m</b> Connection cable for IDM160, connection to ReaderBox or SHARK xx8-RSi, interface RS-232, Ex i 5.6 V cable length 3.6 m, coiled, Binder plug	224086
<b>VB-IDMx60-RS232-1.8m</b> Connection cable for IDM160 / IDM260, connection to VM125-ex-*, interface RS-232, Ex i 5.6 V, cable length 1.8 m, straight, Binder plug	224081
<b>VB-IDMx60-RS232-3.6m</b> Connection cable for IDM160 / IDM260, connection to VM125-ex-*, interface RS-232, Ex i 5.6 V, cable length 3.6 m, coiled, Binder plug	224082
<b>VB-IDMx60-USB-1.8m</b> Connection cable for IDM160, connection to VM125-ex-*, interface USB, Ex i 5.6 V, cable length 1.8 m, straight, Binder plug	224083
<b>VB-IDMx60-USB-3.6m</b> Connection cable for IDM160, connection to VM125-ex-*, interface USB, Ex i 5.6 V, cable length 3.6 m, coiled, Binder plug	224084
<b>VB-IDMx6x-Base-RS232-SR-1.8m-Z1</b> Connection cable for base loading station IDM*-Z1, connection to ReaderBox or SHARK xx8-RSi, interface RS-232, Ex i 5.6 V, cable length 1.8 m, straight, Binder plug	224102
<b>VB-IDMx6x-Base-RS232-SR-3.6m-Z1</b> Connection cable for base loading station IDM*-Z1, connection to ReaderBox or SHARK xx8-RSi, interface RS-232, Ex i 5.6 V, cable length 3.6 m, coiled, Binder plug	224103
<b>VB-IDMx6x-Base-VM-RS232-1.8m-Z1</b> Connection cable for base loading station IDM*-Z1, connection to VM125-ex-*, interface RS-232, Ex i 5.6 V, cable length 1.8 m, straight, Binder plug	224100
<b>VB-IDMx6x-Base-VM-RS232-3.6m-Z1</b> Connection cable for base loading station IDM*-Z1, connection to VM125-ex-*, interface RS-232, Ex i 5.6 V, cable length 3.6 m, coiled, Binder plug	224101
<b>VB-IDMx6x-Base-VM-USB-1.8m-Z1</b> Connection cable for base loading station IDM*-Z1, connection to VM125-ex-*, interface USB, Ex i 5.6 V, cable length 1.8 m, straight, Binder plug	224104
<b>VB-IDMx6x-Base-VM-USB-3.6m-Z1</b> Connection cable for base loading station IDM*-Z1, connection to VM125-ex-*, interface USB, Ex i 5.6 V, cable length 3.6 m, coiled, Binder plug	224105

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<b>Connection Cable Extension</b>		<b>Art. No.</b>
	<b>VB-IDMx6x-EXT-3.0m-Z1</b> Extension cable for IDMx6x zone 1, cable length 3 m, straight	265948
	<b>VB-IDMx6x-EXT-3.0m-Z1-spiral</b> Extension cable for IDMx6x zone 1, cable length 3 m, coiled	263908
	<b>VB-IDMx6x-EXT-6m-Z1</b> Extension cable for IDMx6x zone 1, cable length: 6 m, straight	224108
	<b>VB-IDMx6x-EXT-6.0m-Z1-spiral</b> Extension cable for IDMx6x zone 1, cable length 6 m, coiled	265949
<b>Power supply</b>		<b>Art. No.</b>
	<b>DSP-IDMx6x-DC5V</b> Power supply for non-ex base loading station	224095
<b>Tripod</b>		<b>Art. No.</b>
	<b>IDMx6x-tripod</b> Tripod for IDMx6x, material: ABS (acrylonitrile-butadiene-styrene)	224106

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