

# 23DMx-3 Ex Smart Multimeter

[www.icordex.com/product/23dmx-3/](http://www.icordex.com/product/23dmx-3/)

## An ATEX certified, app-controlled digital multimeter for Ex mobile devices



The 23DMx-3 uses Bluetooth BLE technology to seamlessly integrate with a tablet or smartphone using the iCorDEX NEXUS app bringing test and measurement to any mobile device and removing the need to have separate Test & Measurement tools that perform only one function.

The 23DMx-3 can be configured to capturing; Voltage, Current, Resistance or Temperature either in realtime when connected to a mobile device or configured as a standalone datalogger.

Stored data can be linked to a location using NFC, Barcode, QR Code, GPS or simple test along with a description of the data collected. All data can be analysed on your mobile device using the NEXUS app or transferred via .CSV file for integration into high level analysis software for Condition Based Monitoring.

Powered by a removable, rechargeable battery, 23DMx-3 app-controlled multimeter represents the next generation of hazardous area test and measurement solutions.

### Key Features:

- ATEX Digital Multimeter for Smartphone/Tablet
- Live measurement and remote standalone logging modes
- Simple integration with Digital Field Worker devices using NEXUS® App

### Main Applications

- Intrinsically Safe Live Maintenance (IEC60079-17)
- Periodic Verification of Earthing, Grounding and Bonding (IEC60364-6)
- Measurement instrument testing (4-20mA)



iOS and Android



## Specifications

www.icordex.com/product/23dmx-3/

ATEX		
Zone	2	
Marking	Ex II 3 G Ex ic IIC T4 Gc	
Tamb	-10°C to +50°C	
Standards	IEC 60079-11: 2023 Ed 7.0	
	IEC 60079-0:2017	
Meter Data		
Ingress Protection	IP54	
Drop Withstand	1 metre	
Category Rating	CAT 2	
Warranty	Limited 2 year <a href="https://www.icordex.com/testwarranty">https://www.icordex.com/testwarranty</a>	
Calibration Cycle	Once per year, recommended	
Datalogging		
Setup	NEXUS®	
Onboard Memory	32Gb	
Sample Frequency	1s/10s/1m/1h	
Measurement Tagging*	GPS/QR Code/Barcode/NFC/Freeform	
Oscilloscope*	Live Plotting	
	Triggering (Level/Edge/Auto/Normal)	
Data Export*	.CSV (Email/Whatsapp/Text/Device Storage)	
Data Playback	On host device	
Electrical Measurement		Accuracy
DC Voltage	±150V	±0.05%
AC Voltage	±150V	±0.5%
DC Current	±5A	±1%
AC Current	±5A	±1%
Resistance	0-50MΩ	±0.2%
Temperature	-200°C to +500°C	±1% @ 10°C
Continuity	Audiable	
Power		
Battery Type	Removable, Rechargeable	
Battery Voltage	7.4V	
Capacity	6000mAh	
Environmental Data		
Safe Operating Temperature	-20°C to +50°C	
Pollution degree	2	
EMC	EN61326-1	
Connectivity		
Wireless Technology	BLUETOOTH BLE	
Communication Protocol	NEXUS®	
Bluetooth Range	2m (6ft)	

Specifications, cont.

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Meter Physical Data	
Weight	186g excluding battery (battery weight 130g)
Dimensions	114mm x 106mm x 51mm
Included in the box	1x 23DMx-3 ATEX Smart Multimeter
	1x Set of CAT2 Test Leads
	1x Set K-type Thermocouple Leads
	1x K-type Thermocouple Adaptor
	1x 7.4V ATEX Rechargeable Battery
	1x Charging Dock
	1x Wall Power Supply
	1x Carrying Pouch
	1x iCorDEX Safe Operations Manual
	1x iCorDEX Warranty Card



Battery engaged



Battery unlocked



Battery removed



23DMx-3  
Ex Smart Multimeter



Cat2 test leads

K-type Thermocouple  
leads and adaptor

# iCorDEX

## The Nexus App iOS and Android

[www.icordex.com/nexusapp/](http://www.icordex.com/nexusapp/)

The Nexus app collects and stores data from your iCorDEX products, all in one place, ready for your next inspection when you sync them via Bluetooth.

Log multiple locations via GPS, QR codes, and RFID tags, making it quick and easy for digital field workers to collect and analyse data.

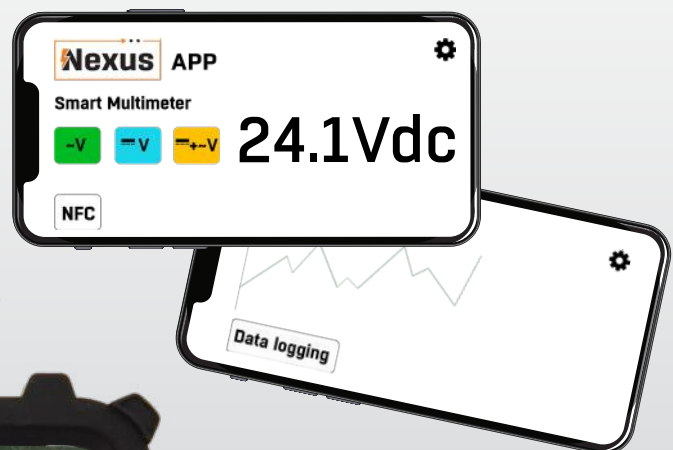
Download your data to a CSV file at the click of a button.



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- Free version available
- Optional Pro version (Paid)

Specifications subject to change without notice



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