

MoData2



**Mobile Data Collection for
Maintenance and Intensive Measurement**

Technische Daten

MoData2



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Case	Plastic
Size	290 x 260 x 70 mm (D x W x H)
Weight	2.25 kg (MoData2 with handheld PC) 7.80 kg (System carry case MoData2 with full range of accessories)
Interfaces	2 x 9 pin serial port (1 x 9 pin unassigned, for PC transfer or GPS) 12 V charging socket (with internal isolation) Terminal for synchronization or relay cable
Current supply	Rechargeable lead battery 6 V / 1.3 Ah with a life of approx. 10 h
Equipment	MoData2 including handheld PC Itronix fex21 Pen for screen operation External 230 V battery charger Synchronization cable Transfer cable User manual
Options	System carry case 'Sprint' carrying strap for remeasurements 'Marathon' carrying strap for intensive measurements External 12 V offline battery charger GPS receiver

Handheld PC Itronix fex21

Case	Impact-resistant plastic
Size	190 x 155 x 37 mm (D x W x H)
Weight	800 g
Ingress protection	IP 65
Screen	6.5", 16 grayscale with backlight 640 x 240 touch-sensitive (use of pen)
Keyboard	Fluorescent membrane keyboard
Operating system	Windows CE Handheld PC 2000 (German or English)
Processor	Toshiba 129 MHz
Memory	32 MB
ROM	32 MB
Interfaces	2 x 9 pin serial port Infrared interface
Modem	V34 analogue
Current supply	Rechargeable lithium ion battery with a life of approx. 10 h
Operating	-10°C to 50°C
Other	64 MB compact flash card, installed for additional data backup

Specifications

DC Voltage Measurement (3 channels simultaneously)

Input Impedance > 10 M Ω

Measuring Range	Resolution
± 1 V	0,1 mV
± 10 V	1 mV
± 100 V	10 mV

Attenuation at 16,6 Hz 60 dB (factor 1.000)
at 50,0 Hz 100 dB (factor 100.000)

AC Voltage Measurement

Input Impedance > 10 M Ω

Measuring Range	Resolution
1 V eff.	0,2 mV
10 V eff.	2 mV
100 V eff.	20 mV

Frequency Range 15 Hz - 500 Hz

Resistance measurement (Wenner method: 2-pole / 4-pole)

Measuring Range	Resolution	Frequency: 128 Hz
200 Ω	0,01 Ω	
20 K Ω	1 Ω	
800 K Ω	100 Ω	

Microvolt Measurement

Input Impedance > 1 M Ω

Measuring Range	Resolution
± 50 mV	1 μ V

Attenuation at 16,6 Hz 60 dB (Factor 1.000)
at 50,0 Hz 100 dB (Factor 100.000)

Independent zero point calibration before each measurement

High-speed measurement

Sampling Rate 1 ms
Input Impedance > 1 M Ω

Measuring Range	Resolution
± 1 V	1 mV
± 10 V	5 mV
± 100 V	50 mV

Oscilloscope representation possible

Current measurement (with internal fuse)

Measuring Range	Internal Shunt	Resolution	Voltage Drop
10 mA	10 Ω	1 μ A	max. 100 mV
100 mA	3 Ω	10 μ A	max. 300 mV
30 A *	0,01 Ω	1 mA	max. 300 mV

* via additional, built-in current measuring input

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elektronik

Messtechnik für den
kathodischen Korrosionsschutz

Weilekes Elektronik GmbH
Am Luftschaft 17
D-45886 Gelsenkirchen

Tel.: +49 (0)209 - 170 80-0
Fax: +49 (0)209 - 170 80-20

Email: info@weilekes.de
Web: www.weilekes.de