# **Typical applications**

- busbars, wires and cables
- quality of soldered and welded joints
- motor and transformer winding
- switch contacts
- electrical plug-in connectors
- heating elements
- all other tasks, which require the measurement of very low resistances.

## Shipment

- MicroOhmMeter LoRe, mobile or laboratory type (including instruction manual)
- feeding cables (red and black, each approx. 5 m)
- 2 test probes (including test tip extensions and connection cables)
- high-quality aluminum carrying case (for MicroOhmMeter LoRe and all accessories)



### **Options**

- · USB interface (output of measured values)
- measurement range extension to 1,5  $\Omega$
- calibration certificate



## **Distribution:**

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measuring instrument for accurate determination of very low resistances in the range of  $n\Omega$ -m $\Omega$ 



high measurement current – up to 90 A low weight – approx. 3 kg portable - battery operation



# MIKRO $\Omega$ MET ΈR LoRe

#### Whats the use of the MicroOhmMeter LoRe?

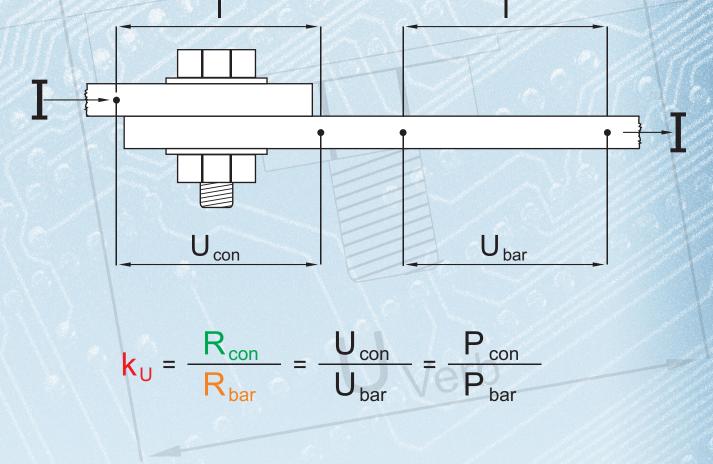
The security of supply of our electric energy facilities depends essentially on the proper condition of the electrical connections. Due to suboptimal conditions, (residual) lifetime may be reduced and the amount of maintenance increases heavily.

To evaluate those conditions, correct measurement of very low resistances with maximum accuracy is necessary.

The MicroOhmMeter LoRe has been especially developed for such tasks. This portable, mains current independent device makes it easy to measure resistances, from  $n\Omega$  to  $m\Omega$ , with great precision. According to the measured value the performance factor can be calculated immediately.

## The performance factor ku

To evaluate the condition of the connection its performance factor  $k_U$  is calculated and evaluated. It is calculated by the ratio between the resistance of the connection, measured over a specific length,  $R_{con}$ , and the resistance of the busbar, measured over the same length,  $R_{bar}$ . For long-lasting, stable connections the performance factor  $k_U$  has to be  $\leq 1,5$ .



## Laboratory type



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Operational conditions		
IP rating	IP 21	
temperature range	-10 °C to 40 °C / 14 °F to	
Technical specifications		
metering range	10 n $\Omega$ 500 m $\Omega$ (optiona	
metering resolution	1 nΩ	
metering range selection	automatic	
measurement current	up to 90 A DC (depends o	
display	2,7" OLED display, resolu four-digit measured value	
Dimensions		
microohmmeter (HxWxD)	85 mm x 250 mm x 260 m (without carrying handle)	
carrying case (HxWxD)	190 mm x 500 mm x 450 i	
Weight		
without accessories	approx. 3 kg	
with accessories and carrying case	approx. 9 kg	
Transport		
See	convenient carrying handl also used as a stand	

	Mobile type	
	IP 67 (when case is closed)	- 6
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on the measure	ed objekt)	
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		Joseph Contraction
mm )	430 mm x 341 mm x 244 mm	
mm		
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	approx. 11.5 kg	
		- All
dle, which is	weatherproof trolley case with telescopic handle	1 p