

### DX4090 Standard Z-Meter

AC Resistance (ACR) Measurement Figure-of-Merit (Z) Measurement Time Constant (t) Measurement dTmax estimations (for single-stage TECs)

Passive Thermostat
Chamber for TECs
up to 40x40mm<sup>2</sup> size

Magnetic Lock Cover

Built-in Temperature sensor

50mm

External TEC Clips

USB Interface is used for power supply connection to PC

Internal Clips for TECs

Portable design

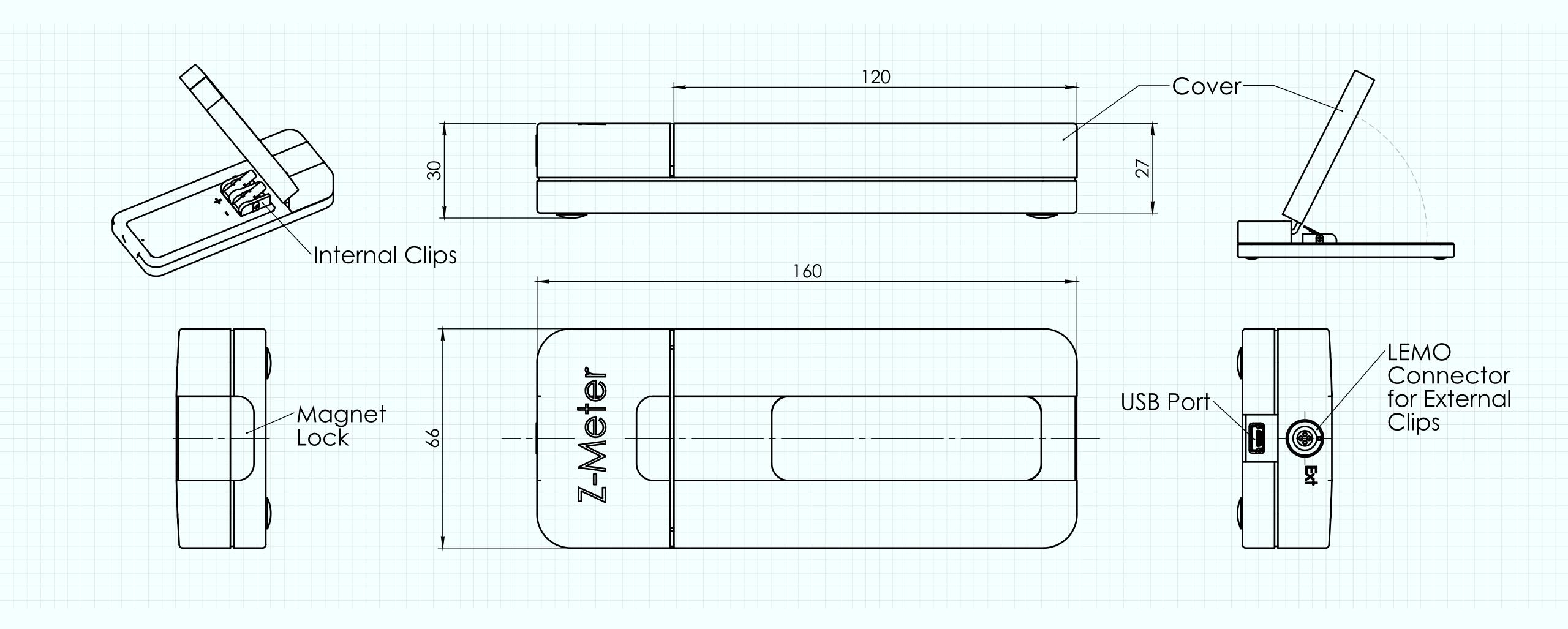
Measuring Current in a range 0...80 mA
Measurement at direct and reversed current
Results normalization to ambient temperatures
Correction coefficients to Z value
Low power consumption

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#### DX4090 Z-Meter

## Dimensions (mm)





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DX4090 Z-METER SPECIFICATIONS			
Connection to PC		Required	
PC Connection Interface		USB type A	
Z-Meter Software		Included. Windows version only	
Measurement Interface		Internal in Chamber or External with Clips	
Measurement Scheme		4-wires method	
Ambient Temp. Sensor		Available, integrated	
TEC Polarity Check		N/A	
Typical TEC Testing Time	sec	20 180 (depending on TEC size	
TEC AC RESISTANCE MEASUREMENTS ( ACR )			
Range	Ohm	0.1 100	
Accuracy	%	0.6 (but >0.010hm)	
Repeatability	%	0.3	
FIGURE-OF-MERIT MEASUREMENTS (Z)			
Range	10E-3/K	14	
Accuracy	%	1.5	
Repeatability	%	0.4	
TEC TIME CONSTANT			
Range	sec	1 100	
Accuracy	%	1.5	
Repeatability	%	1	

# Specifications

OPERATING CONDITIONS			
Ambient Temperature	°C	15 35	
Humidity	%	095	
DX4090 POWER SUPPLY			
External Power Adapter		NOT REQUIRED	
Voltage	V	5.0 (from PC USB port)	
Current	mA	250	
DIMENSIONS AND WEIGHT			
Z-Meter Mini	mm	160 x 66 x 30 (with cover closed)	
Z-Meter Weight	g	240	
STANDARD DX4090 KIT			
Z-Meter DX4090	1pcs		
USB AM-AF	1pcs	Extension cable for Z-Meter to PC connection	
External Clips	1pcs	External Kelvin Clips (4-wires scheme)	
Z-Meter Software		MS Windows version only	
OPTIONAL ACCESSORIES (ORDERED SEPARATELY)			
BNC Adapter		Allows to use BNC tools with Z-Meter	
Customized WB Clips		Required for WB TECs measuring process	