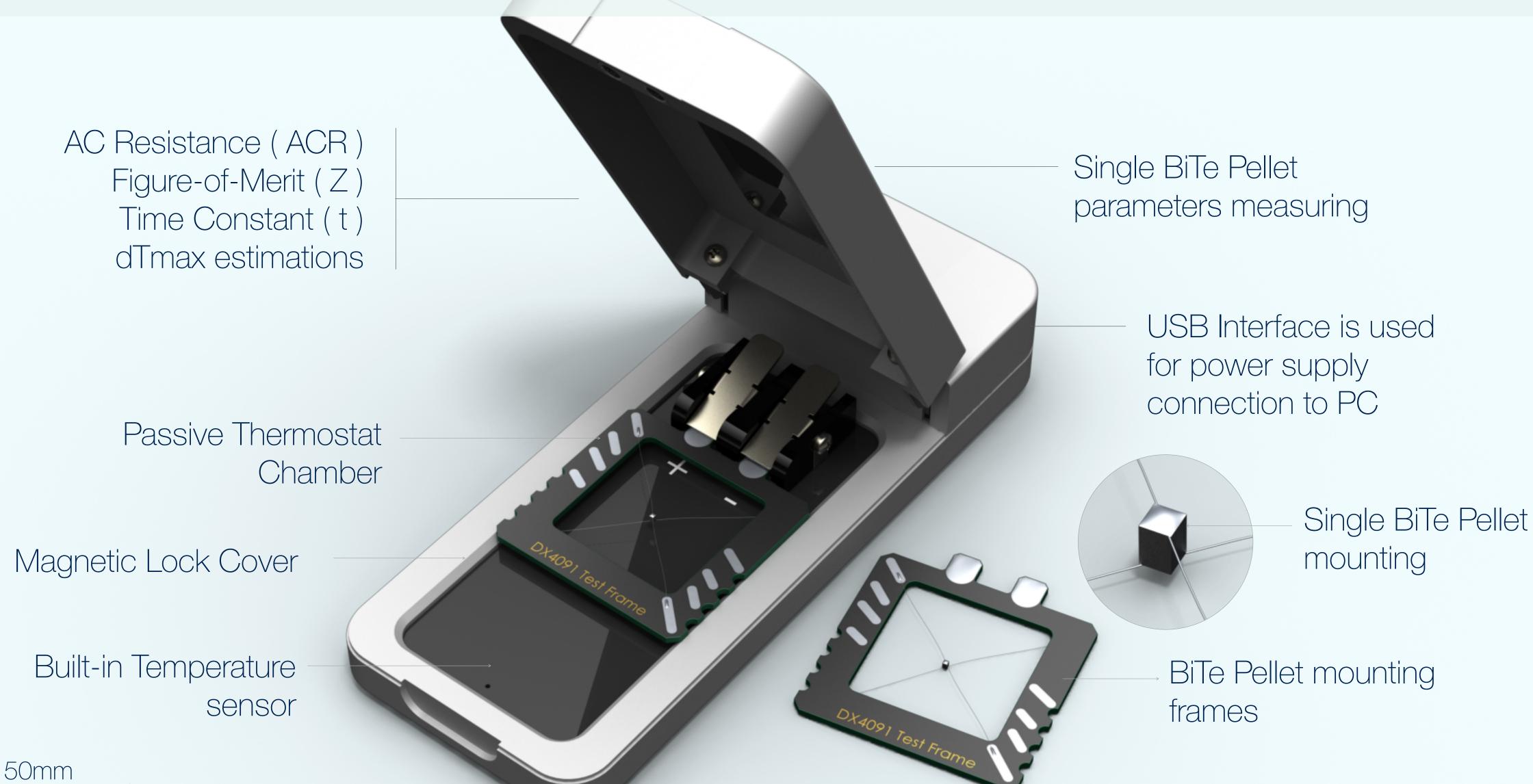
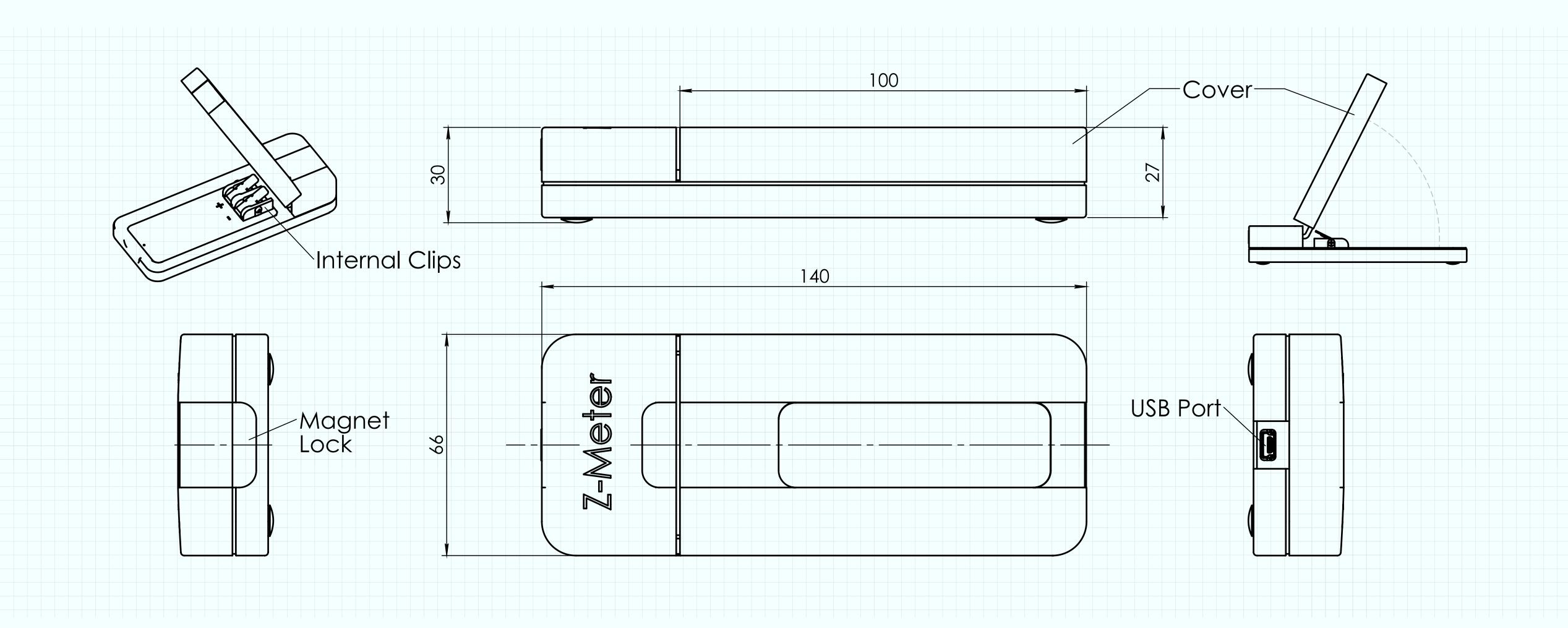
## DX4091 Z-Meter - Pellets Tester





# DX4091 Z-Meter

# Dimensions (mm)





## DX4091 Z-Meter

# Specifications

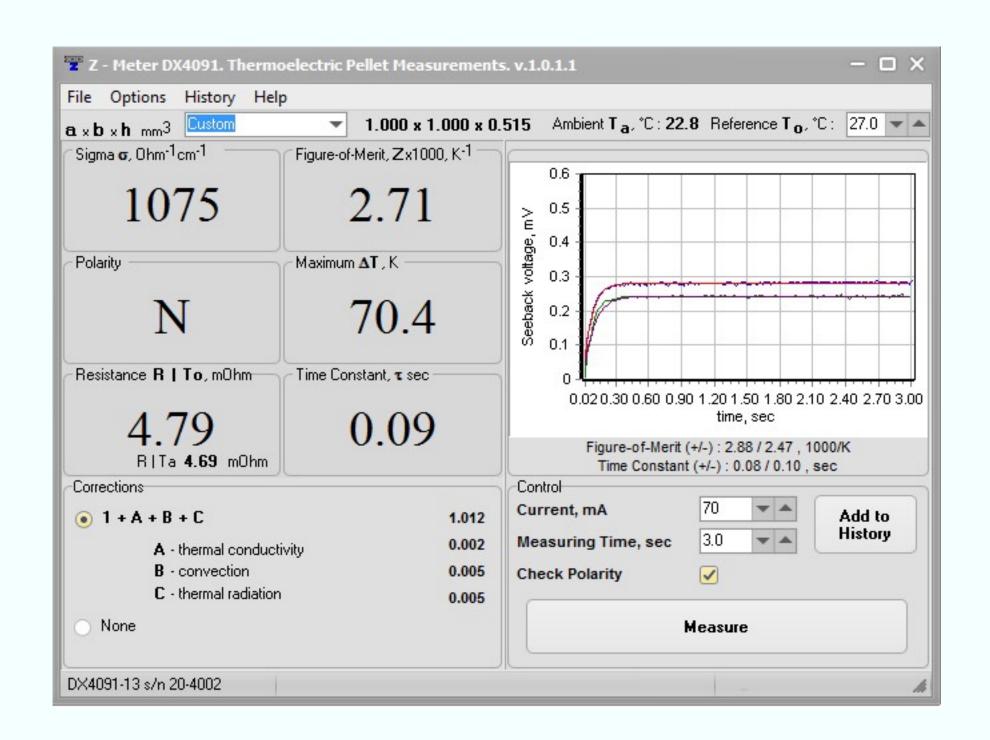
DX4091 Z-METER SPECIFICA	ATIONS				
Connection to PC		Required			
PC Connection Interface		USB type A			
Z-Meter Software		Included. Windows version only			
Measurement Interface		Internal in Chamber			
Measurement Scheme		4-wires method			
Ambient Temp. Sensor		Available, integrated			
Pellet type N-P Check		Available			
Typical Testing Time	sec	510			
SUPPORTED PELLETS DIME	ENSIONS				
Pellet Cross-section, S	mm <sup>2</sup>	0.1 10			
Pellet Height, H	mm	0.5 5			
Pellet S / H		0.15 10			
PELLET RESISTANCE MEAS	UREMENTS (	R)			
Range	mOhm	0.2 200			
Accuracy	%	0.6 (but >0.02mOhm)			
Repeatability	%	0.3			
PELLET FIGURE-OF-MERIT MEASUREMENTS (Z)					
Range	10E-3/K	14			
Accuracy	%	1.5			
Repeatability	%	0.4			

PELLET CONDUCTIVITY (σ)		
Range	Ohm-1cm-1	5002000
Accuracy	%	1.0
Repeatability	%	0.5
OPERATING CONDITIONS		
Ambient Temperature	°C	15 35
Humidity	%	095
DX4091 POWER SUPPLY		
External Power Adapter		NOT REQUIRED
Voltage	V	5.0 (from PC USB port)
Current	mA	250
DIMENSIONS AND WEIGHT		
Z-Meter DX4091	mm	120 x 66 x 30 (with cover closed)
Z-Meter Weight	g	240
STANDARD DX4091 KIT		
Z-Meter DX4091	1pcs	
Test Frame for Pellets	5pcs	Test frame for BiTe pellet mounting
Pt Wire	1m	50um Pt wire (coil)
Z-Meter Software		MS Windows version only
USB Cable		Type A -> USB Micro
OPTIONAL ACCESSORIES (	TO ORDER SE	EPARATELY)
Additional Pellets Frame		Can be provided by request
Additional Pt Wires		Can be provided by request



## DX4091 Z-Meter Pellets Tester

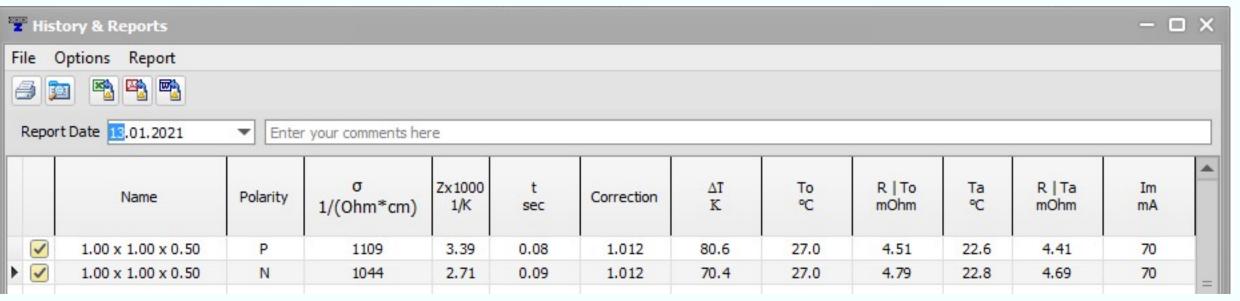
## Software



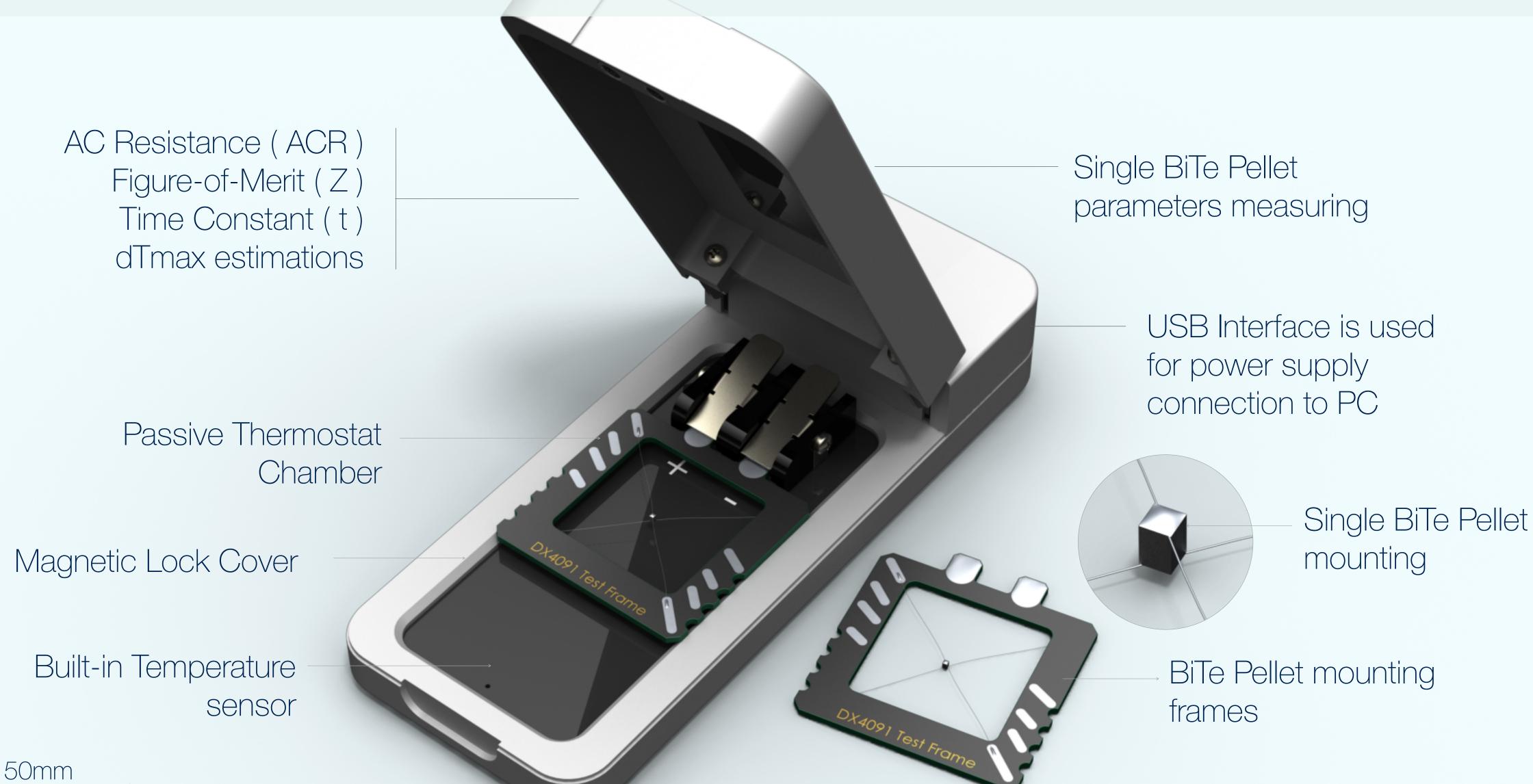
	, Ohm <sup>-1</sup>	1.00 x 1.00 x t		-Merit, <b>Z</b> x1000, K		nbient Ta, °	C: <b>22.8</b> Refere	ence T <sub>o</sub> , °C:	27.0
	1.04			2.71	0.0				
-	Z Par	ams & Consts						:	×
laril									
	The	thermal cond	luctivity of	wires K <sub>W</sub>		70	W/(m·K)	Change	
	The	thermal cond	luctivity of	thermoelectri	c material <b>K</b> <sub>n</sub>	1.5	W/(m·K)	Change	
sisl	The	heat transfer	coefficier	it <b>K</b> ht		6	W/(m <sup>2</sup> ·K)	Change	70 3
	The	Stefan-Boltz	mann cons	stant <b>K</b> B	5.	67E-08	$W/(m^2K^4)$	Change	
rec	Degr	ee of blackne	ess E			0.9	(	Change	
1	Refe	rence tempe	rature <b>T</b> o			27	°C	Change	to
1	wire	diameter d <sub>V</sub>	v			0.05	mm	Change	
N	wire	length L <sub>W</sub>				22	mm	Change	
L					- 111				

Z - Meter DX4091, Thermoelectric Pellet Measurements, v.1.0.1.1

File Options History	Help		
a x b x h mm3 Custom	▼	Ambient Ta, *C: Reference	T₀,°C: 27.0 ▼ 4
Sigma <b>c</b> , Ohm <sup>-1</sup> cm <sup>-1</sup>	Figure-of-Merit, Zx1000, K-1	0.4	
	Custom	×	
Polarity	The length of the sample a:		
	The width of the sample $b$ :  The height of the sample $h$ :	0.515	
Resistance <b>R   To</b> , m0hm		Cancel	

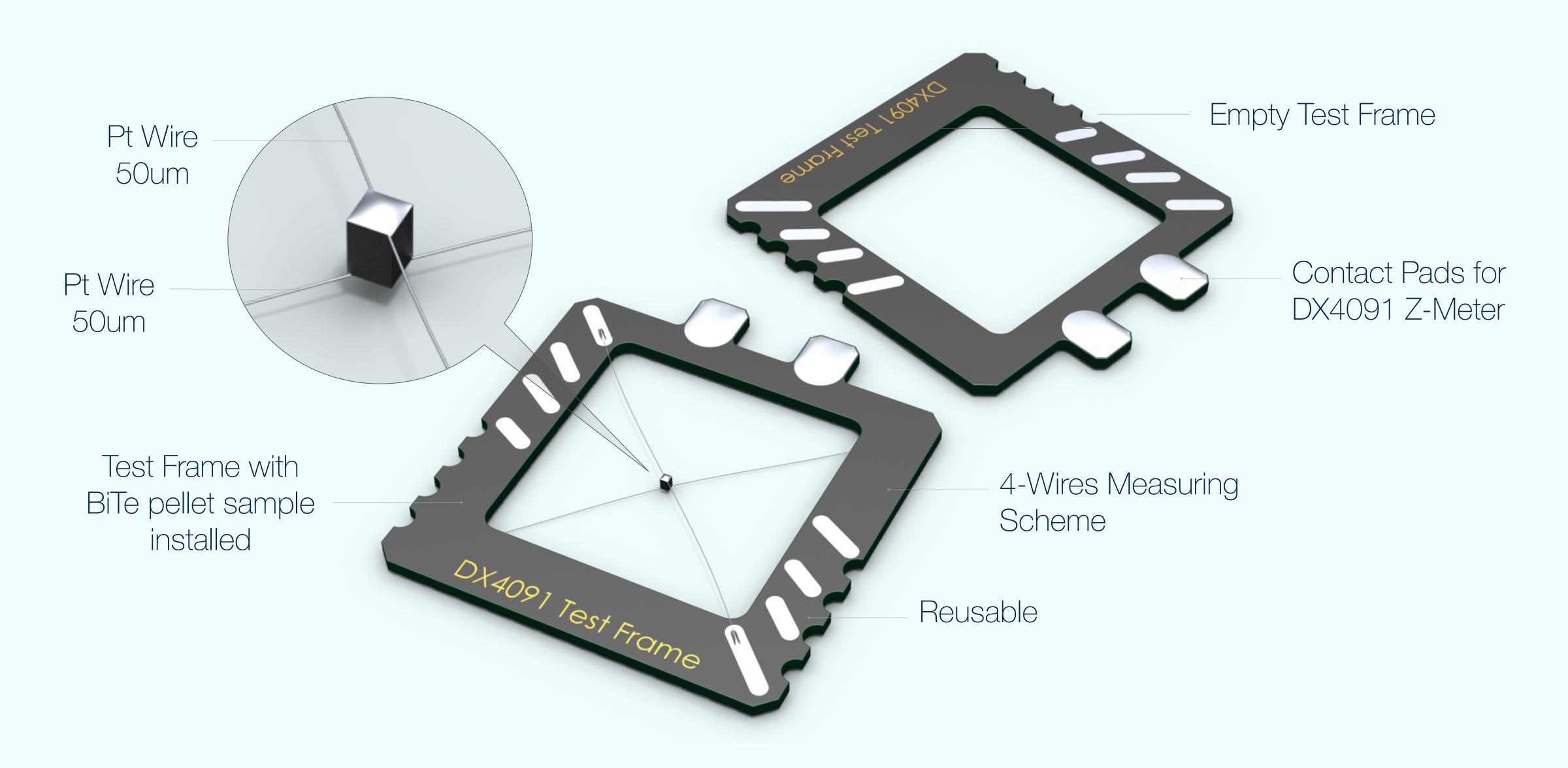


## DX4091 Z-Meter - Pellets Tester



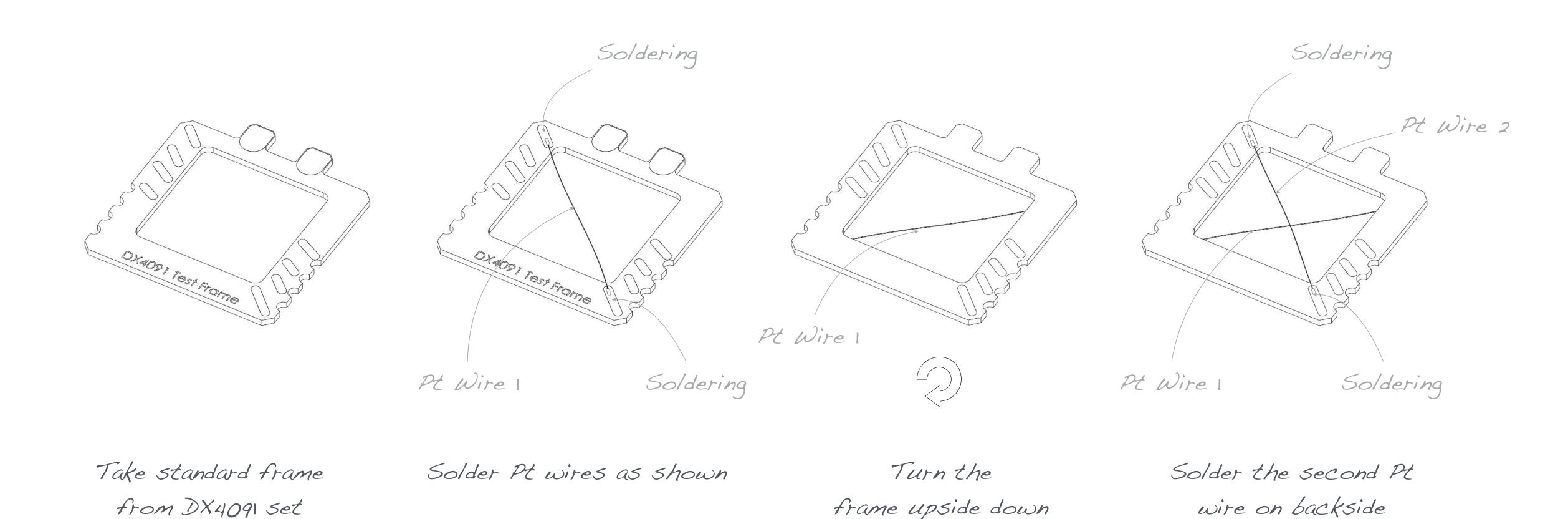


## DX4091 Z-Meter - Test Frames





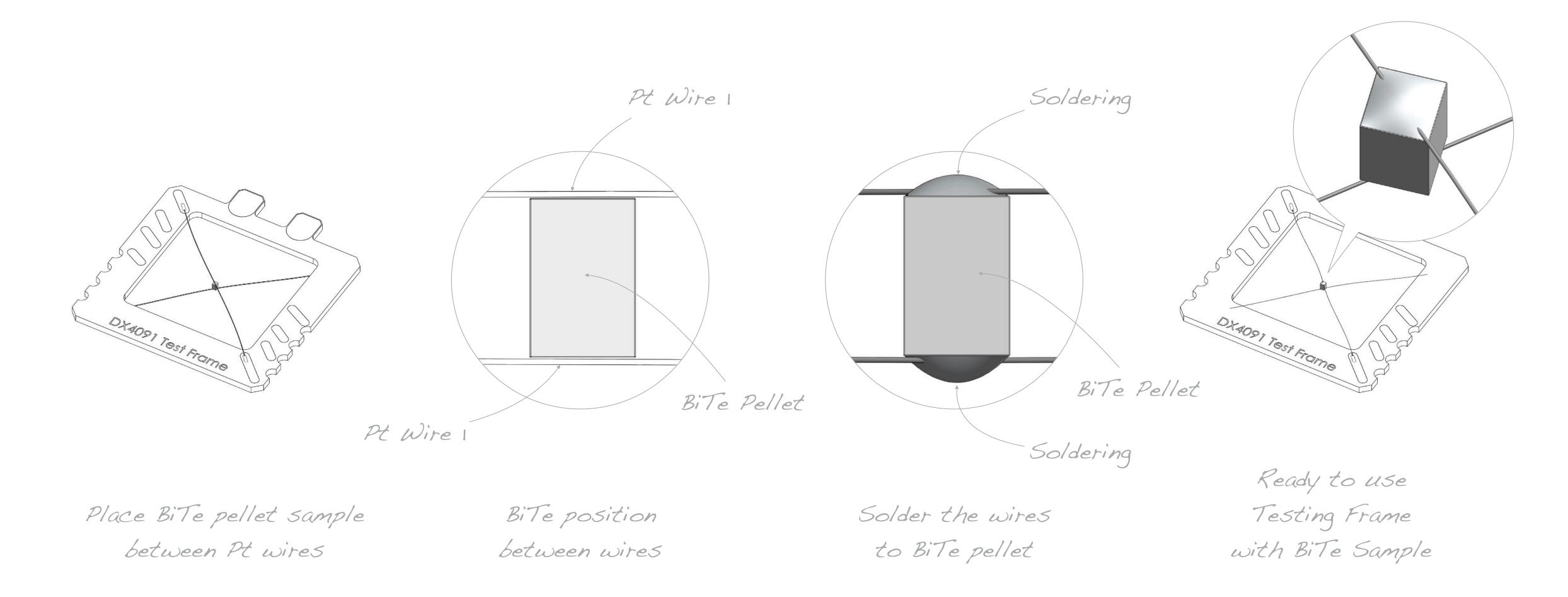
# DX4091 BiTe Pellet mounting in Testing Frame



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# DX4091 BiTe Pellet mounting in Testing Frame





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