ADT878-TPW-KIT

Triple Point of Water Realization Kit

Additel
Metrology Made Simple



- One touch TPW cell realization
- Extremely affordable intrinsic standard
- Self-calibration feature
- Automatically update reference probe TPW values
- Easily maintain temperature working standards
- Fully self-contained

OVERVIEW

The Additel 878 TPW Kit provides everything you need to utilize our model ADT878-160 Reference Dry Well as an intrinsic standard. The triple point value (0.01°C) is key to ITS-90 temperature probe calibration work. Traditional methods take time and practice to realize the triple point of water. Additel has now simplified this process with an automatic TPW realization feature. Simply insert the cell and PRT into the Reference Dry Well and run the preprogrammed procedure. The automation in the firmware will alert when the cell is super cooled. Remove the cell and give it a shake and now you can maintain the triple point in the reference well. With the help of this easy to use kit, users can quickly and easily realize and maintain our custom fit TPW cell, then record/update those ever critical TPW values for all your PRTs.

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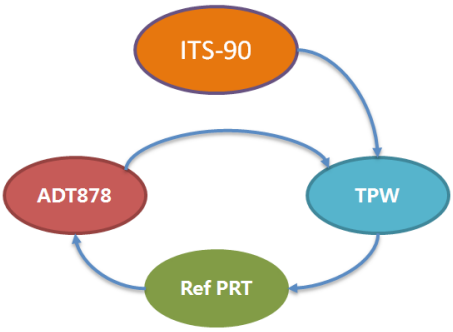
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Accuracy Verification Loop

The triple point of water (TPW) is a critical intrinsic standard and ITS-90 reference point that every owner of a reference PRT or SPRT should have. Using the TPW to check reference temperature probes is the most convenient and affordable way to ensure confidence in your measurements. By regularly checking the drift of your temperature sensor, you can know with certainty if your sensor is in tolerance or not. The International Temperature Scale of 1990 (ITS-90) supports the TPW to be a reliable standard to check your reference PRT. By using the ADT878-160 Reference Dry Well, you can maintain and realize the TPW cell, which in turn can verify your reference PRT. This helps to bring everything full circle, the reference PRT can be used in the self-calibration mode to validate the display accuracy of the ADT878.



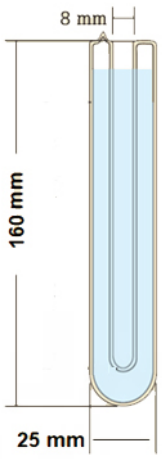
Accuracy Verification Loop



SPECIFICATIONS

Specification	*Display*
Uncertainty	<0.0005°C [1]
Immersion depth/ID	115 mm X 8 mm
External Dimensions	160 mm X 25 mm
Cell material	Borosilicate Glass
Realization time	20 mins
Estimated working time	2 hours
Recommended thermal Fluid	Ethanol
Warranty	1 year

[1] Specification relates to the overall uncertainty when using the shake method of realizing the cell and maintaining it in the ADT878-160. Call for more info.



TPW Cell Size

Ordering Information

Model Number

ADT878 — TPW — KIT

Accessories

Included Accessories		
Model	*Description*	*Picture*
1520000292	TPW cell, 1 pc.	
1223000410	Cell basket, 1 pc.	
1223000411	Basket cover, 1 pc.	

Included Accessories		
Model	*Description*	*Picture*
1223000412	Basket cover with hole, 1 pc.	
1520000291	Support ring, 1 pc	
1810298212	Cell removal tool, 1 pc	
1520000290	Bottom cushion, 1 pc.	

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