

ADT878-TPW-KIT

Triple Point of Water Realization Kit



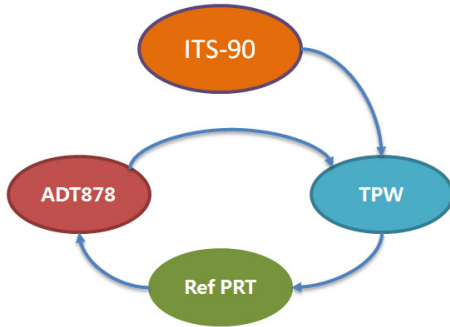
- One touch TPW cell realization
- Extremely affordable intrinsic standard
- Self-calibration feature
- Automatically update reference probe TPW values
- Easily maintain temperature working standards
- Fully self-contained

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.

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.

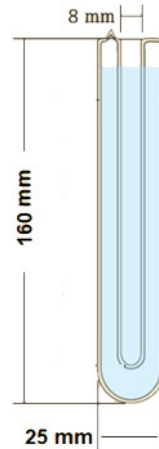


Accuracy Verification Loop



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 |



TPW Cell Size

[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.

Ordering Information

Model Number



Accessories

| Included Accessories | | |
|----------------------|-------------------------------|---------|
| Model | Description | Picture |
| 1520000292 | TPW cell, 1 pc. | |
| 1223000410 | Cell basket, 1 pc. | |
| 1223000411 | Basket cover, 1 pc. | |
| 1223000412 | Basket cover with hole, 1 pc. | |
| 1520000291 | Support ring, 1 pc | |
| 1810298249 | Cell removal tool, 1 pc | |
| 1520000290 | Bottom cushion, 1 pc. | |