The Total Chlorine (CTE) range of sensors have a published operating temperature range of 5º C to 45º C. In some colder climates it is normal in the winter for the water temperature to go below 5ºC. With regards to the sensor working in the range of 0ºC to 5º C, it is not a problem.

In the range of 0º to 5º C the response time of the sensor is only slightly longer than with temperatures in the 5º to 45ºC range. The T90 time is only slightly increased. As long as the water is not frozen, the sensor will measure fine. This is normal with electrochemical reactions, they usually slow down with temperature.

The rate of change of temperature should be no greater than 0.3º C per minute in order for the sensors internal temperature measurement / compensation to keep up with the change.

In most cases the actual chlorine value being measured does not continuously change as residual is being maintained.

Experience of the last 12+ years have proved lower temperatures not to be a problem for the Total Chlorine sensor.