

NSF Protocol P235
Temperature Mimicking Sensors
Temperature micking sensors are not intended to
monitor the micking sensors are not intended to
monitor the air temperature of the refrigerated
location in which they are being used.

eCube is a temperature mimicking sensor (TMS¹) tested under Protocol P235 by NSF International. It is designed for placement into refrigeration containing dairy, meat, ready meals & other food products meant to be maintained at or below 41°F. eCube is designed to accurately reflect the temperature of food under refrigeration conditions, and warm more quickly than food products upon equipment failure. (¹TMS is a separate, non-invasive device consisting of a food simulant material with a thermocouple or thermistor attached.)

NSF International's mission is to "protect you by certifying products & writing standards for food, water & consumer goods. As an independent, not for profit organization, NSF International's ongoing public health commitment is to encourage everyone to live safer."²

Under the performance requirements of Protocol P235, eCube passed the following tests 3:

- The temperature indicated by eCube is between ±2°F of the refrigerated food products 15mm below their surface during the normal refrigeration operations test. The purpose of the test is to insure that eCube accurately mimics the food product temperatures.
- The temperature indicated by eCube is no more than -2°F lower and no more than +5°F higher than the refrigerated food products during the warm up test, which imitates a refrigeration failure. The purpose of the test is for eCube to indicate a higher temperature than the food products to provide advanced warning and allow users to take remedial actions.
- eCube carries this NSF logo for Protocol P235:



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Under Protocol P235, eCube is also required to adhere to standards ANSI/NSF 51 for Food Equipment Materials Requirements & ANSI/NSF 2 for Food Equipment Requirements for Design & Construction. Both of these standards insure that the eCube's design is easily cleanable & the materials used are not harmful when operated in the refrigeration environment.

Protocol P235

NSF International 800-NSF-MARK info@nsf.org www.nsf.org eCube
eCube Solutions, LLC
973-543-9500
info@getecube.com
www.getecube.com

- 1. Excerpt from NSF International Protocol P235 www.nsf.org
- 2. NSF International website www.nsf.org
- 3. Excerpt from NSF International Protocol P235 www.nsf.org