



AGENCY STANDARDS FOR TEMPERATURE AND POWER CONTROLLERS

In certain applications, the control circuit electronics and associated system hardware requires testing by an independent agency to meet specific construction and operation requirements with respect to hazards affecting life and property. The following are the standards our manufactureres apply, where applicable, to the controller products they design and build:

American Gas Association

- A.G.A. Std ANSI Z 21.23-1993---
Gas Appliance Thermostats and
Z21.23a -1994

Canadian Standards Association

- C22.2 No. 24-M1987---
Temperature Indicating and
Regulating Equipment
- C22.2 No. 109-M1981 Commercial
Cooking Appliances
- C22.2 No. 14-M1987 Industrial
Control Equipment
- C22.2 No. 177, 1992 Clock
Operated Switches

European EMC and Low Voltage Directives

- EN 50081-1--- EMC Generic
Emissions Standard/Residential,
Commercial and Light Industrial
- EN 50081-2---EMC Generic
Emissions Standard/Industrial
Environment
- EN 50082-1---EMC Generic
Immunity Standard/Residential,
Commercial and Light Industrial
- EN 50082-2---EMC Generic
Immunity Standard/Industrial
Environment
- EN 60730---Specification for
Automatic Electrical Controls
(Household)
- EN 61010---Safety Requirements
for electrical Equipment for
Measurement, Control and
Laboratory Use
- EN 60950---Specification for
Information Technology Equipment

- VDE 0160---Electronic Equipment
for Use In Power Installations
 - VDE 0805---Safety of Information
Technology Equipment, Including
Business Equipment
 - prEN
50178---Electronic Equipment
for Use In Power Installations-Preliminary
- ### **Factory Mutual**
- FM---Class 3545 Approved
Temperature Limiting Switch

NSF International

- ANSI/NSF 1996---Commercial
Cooking, Rethermalization and
Powered Hot Food and Transport
Equipment
- NSF C-2, 1983---Special
Equipment and/or Devices
(Foodservice)

Underwriters Laboratories (UL®)

- UL 50 (C-UL) ---Type 4X Enclosure
(NEMA 4X, IP65 for European
Manufacture)
- UL 197 (C-UL) --- Commercial
Cooking Appliances
- UL 508 (C-UL) --- Industrial Control
Equipment
- UL 873 (C-UL) ---Temperature
Indicating and Regulating
Equipment
- UL 917 (C-UL) --- Clock Operated
Switches
- UL 991 (C-UL) ---Tests for Safety-
Related Controls Employing Solid
State Devices

Watlow furnishes many stock products that have recognition for various agency file numbers, including the new European Union Directives. Please consult your local Watlow sales office for special assistance regarding your unique requirements.