



## Defender®

Explosion-Proof Thermostats

### Defender Explosion-Proof Thermostats

Ruffneck™ Defender® explosion-proof, heavy-duty thermostats are the smallest, lightest, and most durable thermostats available. They are designed to control heating only, cooling only, or ventilation systems in demanding industrial applications. These include oil refineries, petrochemical plants, pulp and paper mills, coal mines, grain elevators, hazardous waste storage facilities, and other hazardous locations where specific explosive gases or dusts are present.

For hazardous-location temperature controls, rely on Defender® Thermostats for the most dependable, trouble-free service available. The Defender® Thermostat's unique and highly engineered design offers outstanding features and benefits.

#### More Features ... More Benefits:

- all-aluminum exterior
- no breakable external plastic parts
- no exposed copper or brass
- corrosion resistant, suitable for H<sub>2</sub>S environments
- compact & lightweight
- more competitively priced
- CFC & mercury free
- environmentally safe, no leveling required
- 3-year warranty: longest trouble-free warranty in the industry
- precision die-cast components
- greater consistency, better quality
- bimetal sensing element
- fast-acting, reliable, unaffected by altitude
- no delicate coils or bellows
- rugged reliability
- 480 VAC maximum
- wider range of applications

### Specifications

**Temperature range:** 36°F to 82°F (2°C to 28°C)

**Temperature differential:** 2.5 F° (1.5 C°)

**Net weight:** 2.1 lbs. (0.95 kg)

**Switching:** Snap acting

**Conduit opening:** ¾" - 14 NPT

### Electrical Rating

22 Amps Res., 480 VAC Max.;

½ HP @ 125 VAC, 1 HP @ 250 VAC

Class I, Divisions 1 & 2, Groups C & D;

Class II, Division 1, Groups E, F, & G;

Class II, Division 2, Groups F & G; Class III;

Class I, Zones 1 & 2, Groups IIA & IIB

### Approvals

UL Listed & CSA Certified

### Patents

Pat. 08/583,929 USA

Pat. Pending 2,151,641 CAN

Des. Pat. 376,109 USA; Rd. 1996, 78975 CDN

### Available in two models ...

**XT-311** (Feed-Through, Single Pole, Single Throw)

For heating-only applications.

**XT-312** (Feed-Through, Single Pole, Double Throw)

For heating or cooling / ventilation applications.

