



# SEL-734 ANSI Conformity

## *SEL-734 Advanced Metering System and ANSI Std. C12.20-2002*

### **SEL-734 and ANSI Std. C12.20-2002**

Conformity with accepted industry standards, including ANSI Std. C12.20-2002, is a vital part of the design and manufacture of the SEL-734 Advanced Metering System. SEL tested the SEL-734 to all applicable sections of ANSI Std. C12.20-2002, as well as other IEEE and IEC standards for meters. The SEL-734 advanced meter meets all of the applicable sections of the ERCOT Protocols and the Settlement Metering Operating Guides.

### **Test Coverage**

ANSI Std. C12.20-2002 establishes the physical aspects and acceptable performance criteria for 0.2 and 0.5 accuracy class electricity meters meeting Blondel's Theorem. SEL tested the SEL-734 to the 0.2 accuracy class.

ANSI Std. C12.20-2002 includes 38 tests. Seven of the tests do not apply to the SEL-734:

Test 10, *Effect of Register Friction*, and Test 12, *Effect of Tilt*, apply to electromechanical meters only.

Test 20, *Effect of Temporary Overloads*, and Test 21, *Effect of Current Surges in Ground Conductors*, apply to self-contained meters only.

Test 36, *Weather Simulation*, Test 37, *Salt-Spray*, and Test 38, *Rain-Tightness*, are intended for devices in outdoor applications.

Outside laboratories conducted six tests:

Test 26, *Effect of RFI*, and Test 27, *Radiated and Conducted Emissions (FCC Part 15 Class "A" digital devices)*, were conducted at Northwest EMC, Inc.

Test 32, *Mechanical Shock*, Test 34, *Mechanical Vibration*, and Test 35, *Transportation Vibration*, were conducted at Northwest Environmental Test Lab.

Test 33, *Transportation Drop*, was conducted at Sealed Air Corporation.

The remaining 25 tests were conducted at SEL.

### **SEL-734 Successfully Passed All Watt-Hour Meter Tests**

The SEL-734 proved fully functional in all watt-hour meter tests. Meters with serial number 2007290001 or later are C12.20 compliant. Contact SEL if you would like copies of the test reports.

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