

### Temperature Range

**Operating:** 32 to 122° F (0 to 50° C)

**Storage:** -40 to 158° F (-40 to 70° C)

**Relative Humidity:** 5 - 90% RH, Non-condensing

### Unit Enclosures

The SMRT1 unit comes housed in a rugged, metal, lightweight enclosure. IEC Enclosure Rating IP20. Optional enclosure for 19 inch rack mount is available.



Rack mount enclosure includes two BNC connectors on the back panel. These connectors are used to amplify an external analog signal using the SMRT amplifiers. Application of  $\pm 10$  Volts Peak will provide Full Scale output from the selected output.

### Dimensions

Standard Enclosure

13.5W x 2.4H x 6.75D in. (34.3W x 6.1H x 17.2D cm)

Rack Mount Enclosure

19W x 2.6H x 8.75D in. (48.3W x 6.6H x 22.2D cm)

### Weight

Standard Enclosure: 8.9 lb. (4 kg)

Rack Mount Enclosure: 10.85 lb. (4.9 kg)

### Conformance Standards

**Safety:** EN 61010-1

**Shock:** MIL-PRF-28800F (30g/11ms half-sine)

**Vibration:** MIL-RFP-28800F (5-500Hz, 2.05 g rms)

**Transit Drop:** MIL-RFP-28800F

(10 drops, 20 cm, without carry case)

(10 drops, 46 cm, with optional carry case)

**EMC Emissions:** EN 61326-2-1, EN 61000-3-2/3,

FCC Subpart B of Part15 Class A

**Immunity:** EN 61326-2-1, EN 61000-4-2/3/4/5/6/8/11

### Protection

Voltage outputs are protected from short circuits and thermally protected against prolonged overloads. Current outputs are protected against open circuits and thermally protected against prolonged overloads.

### Communication Interfaces

Ethernet (2)

Bluetooth (optional)

### SOFTWARE

#### AVTS – STVI Basic

Every unit comes with **AVTS Basic** software and the PC version of the **STVI Basic** software packages. AVTS Basic version includes Online Vector control (for single and multi-state timing tests), Online Ramp control (for automatic ramping of voltage, current, phase angles or frequency) and Online Click-On-Fault (for dynamic tests of impedance relays). Test results may be exported directly to Microsoft Word. AVTS software includes a database for saving test results, which can also provide the necessary information needed for system reliability audits. See **AVTS** bulletin for more information.

The PC version of the STVI software includes the ability to bring all STVI test data (from other STVI units) into file folders for retrieval, review and printing whenever needed. See **STVI** bulletin for more information.

#### AVTS Advanced

The **AVTS Advanced** version includes all the features in AVTS Basic plus the powerful Test Editor, Dynamic Control (includes dynamic end-to-end testing capability, and waveform recording capability), ASPEN OneLiner™ or Electrocon CAPE™ SS1 File Converter for dynamic testing, and easy to use programming Tools for creating and editing test modules. See **AVTS** bulletin for more information.

#### AVTS Professional

The **AVTS Professional** version includes all of the features of the Basic and Advanced versions plus some other powerful test tools and features. It includes the DFR Waveform Viewer, One-Touch™ Test, Modbus communication test capability for fully automatic tests, and Waveform Digitizer to digitize scanned waveforms of electromechanical over current time curves. See **AVTS** bulletin for more information.

#### IEC 61850 GOOSE

The SMRT with the GOOSE enabled, in conjunction with the Megger GOOSE Configurator (MGC) software, can be used in the testing or commissioning of IEC 61850 compliant devices. See **AVTS** bulletin for more information.