- Rainfall (±3% of total or ± one tip of the bucket (0.01"/0.2mm), whichever is greater)
- Temperature (±0.5°F or ±0.3°C; Radiation Induced Error: +4°F or 2°C at solar noon (insolation = 1040 W/m2, avg. wind speed <= 1 ms)).
- Humidity (±2%)
- Wind speed (±2 mph (2 kts, 3.2 km/h, 0.9 m/s) or ±5%, whichever is greater)
- Wind direction (±3°)
- Atmospheric pressure (±0.03" Hg or ±0.8 mm Hg or ±1.0 hPa/mb)
- Ultra Violet (UV) Radiation Dose (±5% of daily total, drift up to ±2% per year)

- Ultra Violet (UV) Radiation Index (±5% of full scale)
- Visible light Solar Radiation (±5% of full scale, drift up to ±2% per year) Heat Index (±2°F or ±1°C)
- Dewpoint (±2°F or ±1°C)
- THSW Index (Temperature-Humidity-Sun-Wind) (±4°F or±2°C)
- THW Index (Temperature-Humidity-Wind)
- Barometric Pressure (±0.03" Hg or ±0.8 mm Hg or ±1.0 hPa/mb)
- Rain rate (±5% for rain rates)
- ET (Evapotranspiration) (Greater of 0.01" (0.25 mm) or ±5%)
- Wind Chill (2°F or ±1°C)