

## Specialty Plug-in Modules

### Specifications – 2080-MEMBAK-RTC, 2080-MEMBAK-RTC2

Attribute	Value
Resolution READ_RTC()	1 s
Accuracy	± 5 sec/month @ 25 °C ± 9 sec/month @ -20...65 °C
Power off	Battery — 3.5 years from date of manufacture @ 25...65 °C, 2.5 years from date of manufacture @ 0 °C
Temperature, operating	IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock): -20...65 °C (-4...149 °F)
Temperature, nonoperating	IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock): -40...85 °C (-40...185 °F)
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): 5...95% non-condensing
Vibration	IEC 60068-2-6 (Test Fc, Operating): 2g @ 10...500 Hz
Shock, operating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 25 g
Shock, nonoperating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 25 g 35 g (PANEL mount)
Emissions	CISPR 11 (IEC 61000-6-4): Class A
ESD immunity	IEC 61000-4-2: 6 kV contact discharges 8 kV air discharges
Radiated RF immunity	IEC 61000-4-3: 10V/m with 1kHz sine-wave 80% AM from 80...2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 10V/m with 1kHz sine-wave 80% AM from 2000...2700 MHz
Altitude, operating	2000 m

**IMPORTANT** Battery life does not include controller ON time. For example, if the Controller is ON for 16 hours every day for 365 days, if the module starts being used after 1 year of manufacturing, battery life is 8.5 years (1 year initial time + 2.5 years of Off time out of 7.5 years).

### Specifications – 2080-TRIMPOT6

Attribute	Value
Data range	0...255
Number of trimpot	6
Temperature, operating	IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): -20...65 °C (-4...149 °F)