

## RTC25 Test Conditions

- a. **COILV1** - Coil voltage 1. Nominal device operating voltage.
- b. **COILV2** - Coil voltage 2. Must operate or must hold coil voltage.
- c. **COILV3** - Coil voltage 3. Must not operate or must release coil voltage.
- d. **COIL1** - Coil current 1.
- e. **COIL2** - Coil current 2.
- f. **COIL3** - Coil current 3.
- g. **CODE** - Device contact code.
- h. **RATE** - Coil voltage ramp rate. RATE=100/volts-per-second.
- i. **COND1** - reserved for future expansion.
- j. **COND2** - reserved for future expansion.
- k. **COND3** - reserved for future expansion.
- l. **COND4** - Test Repeat. Tests will repeat this number of times when enabled by FLAG1. The result is an average or maximum value depending on FLAG1.
- m. **LEVEL1** - Contact Stabilization Time (OCST/RCST) sense level in millivolts.
- n. **LEVEL2** - reserved for future expansion.
- o. **IRV** - Insulation Resistance Test voltage (with RTA11 adapter).
- p. **HIPV1** - Dielectric Withstanding test voltage 1 (with RTA11 adapter).
- q. **HIPV2** - Dielectric Withstanding test voltage 2(with RTA11 adapter).
- r. **HIPV3** - Dielectric Withstanding test voltage3 (with RTA11 adapter).
- s. **SOAK1** - Coil soak and contact stabilizing delay time.
- t. **SOAK2** - Contact Voltage Drop test soak time.
- u. **FLAG1** - Conditional test flags. Bits 3 through 7 are unused but reserved.
  - bit 0 = Latching relay enable.
  - bit 1 = Test repeat enable.
  - bit 2 = Repeat test max./average (1 = max. value)
- v. **FLAG2** - reserved for future expansion.
- w. **TEMP** - Ambient RUT temperature.
- x. **TIC** - Calibration watchdog timer.

## RTC25 Device Tests

- ACR** - Coil A resistance
- BCR** - Coil B resistance
- RPIV** - Pull-In voltage, ramp method
- RDOV** - Drop-Out voltage, ramp method
- CVD** - Contact Voltage Drop (with RTA7 or RTA11 adapter)
- CTR** - Contact resistance (using the internal current source)
- OT** - Operate Time
- RT** - Release Time
- OB** - Operate contact bounce
- RB** - Release contact bounce
- BBC** - Contact break bounce
- OCST** - Operate contact stabilization time
- RCST** - Release contact stabilization time
- EMF** - Max. coil turn-off reverse transient
- CC** - Coil current (at COILV1)
- SPIV** - Pull-in voltage, step method
- SDOV** - Drop-out voltage, step method
- RPII** - Pull-In current, ramp method
- RDOI** - Drop-Out current, ramp method
- SPII** - Pull-In current, step method
- SDOI** - Drop-Out current, step method
- RPHV** - Pull-In hold voltage, ramp method
- RDHV** - Drop-Out hold voltage, ramp method
- OTD** - Operate time delay
- RTD** - Release time delay
- HCVD** - High current CVD test (with RTA7 or RTA11 adapter)
- FORM** - Contact form switching test

**SOCK** - RUT socket check  
**CAL1** - Calibration mode 1  
**CAL2** - Calibration mode 2