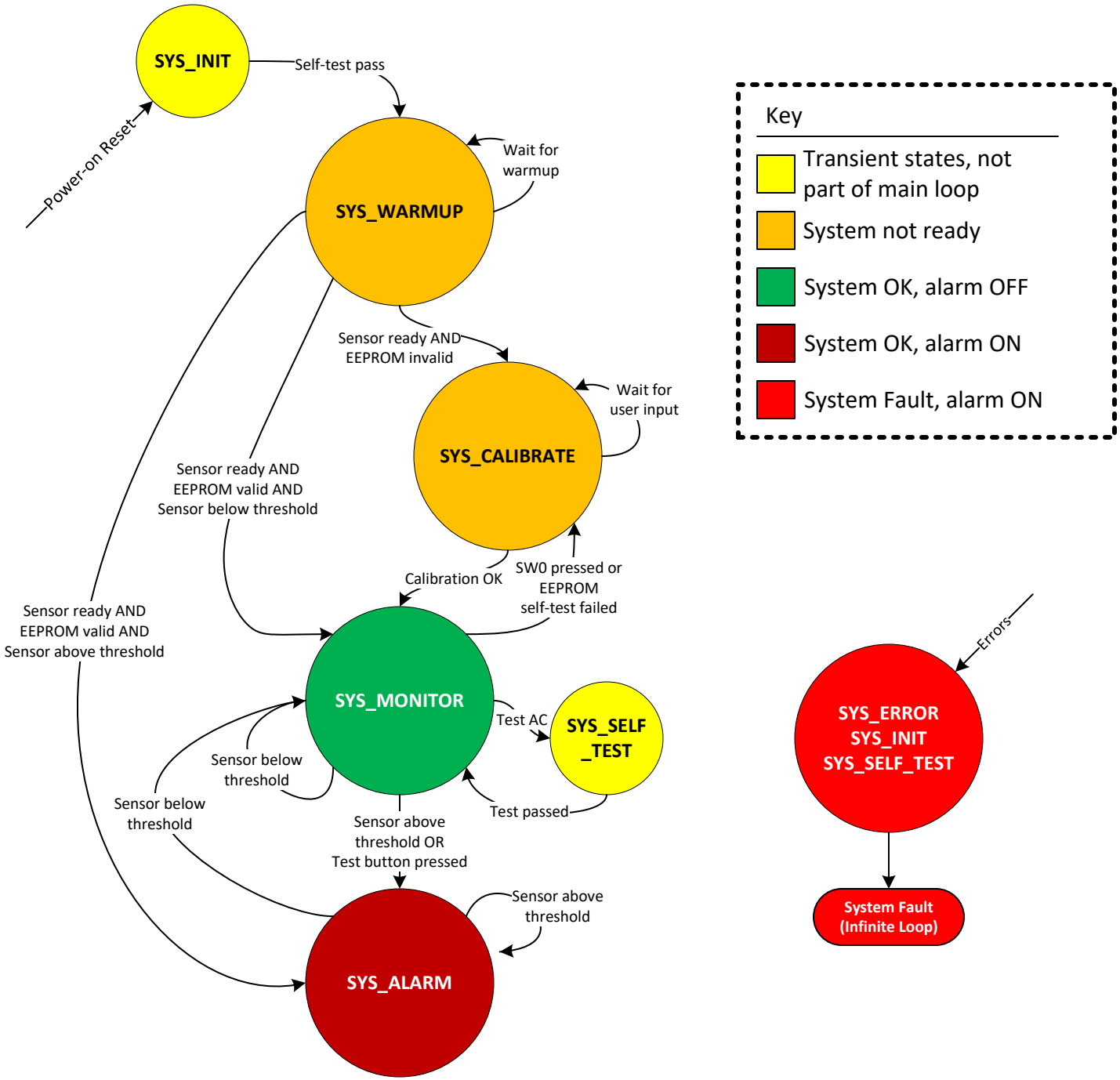
SYS_INIT
Self-test pass
Power-on Reset
SYS_WARMUP
Wait for warmup
Sensor ready AND EEPROM invalid
SYS_CALIBRATE
Wait for user input
Sensor ready AND EEPROM valid AND Sensor below threshold
Calibration OK
SW0 pressed or EEPROM self-test failed
Sensor ready AND EEPROM valid AND Sensor above threshold
SYS_MONITOR
Test AC
SYS_SELF _TEST
Sensor below threshold
Sensor below threshold
Test passed
Sensor above threshold OR Test button pressed
Sensor above threshold
SYS_ALARM
Key
Transient states, not part of main loop
System not ready
System OK, alarm OFF
System OK, alarm ON
System Fault, alarm ON
Errors
SYS_ERROR
SYS_INIT
SYS_SELF_TEST
System Fault (Infinite Loop)