



## Product Change Notification / SYST-07EKKL826

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### Date:

08-Sep-2022

### Product Category:

Photoelectric/Ionization Smoke Detector

### PCN Type:

Document Change

### Notification Subject:

ERRATA - RE46C194 Silicon Errata and Data Sheet Clarifications

### Affected CPNs:

[SYST-07EKKL826\\_Affected\\_CPN\\_09082022.pdf](#)

[SYST-07EKKL826\\_Affected\\_CPN\\_09082022.csv](#)

### Notification Text:

SYST-07EKKL826

Microchip has released a new Errata for the RE46C194 Silicon Errata and Data Sheet Clarifications of devices. If you are using one of these devices please read the document located at [RE46C194 Silicon Errata and Data Sheet Clarifications](#).

**Notification Status:** Final

**Description of Change:** APPENDIX A: REVISION HISTORY Rev. B Document (September 2022) • Added correction to Section 1. Module: "LTD Operations"; • Added Section 2. Module: "Smart IO Operations"; • Added mention in Data Sheet Clarifications. ĩ»ž

**Impacts to Data Sheet:** None

**Change Implementation Status:** Complete

**Date Document Changes Effective:** 08 Sep 2022

**NOTE:** Please be advised that this is a change to the document only the product has not been changed.

**Markings to Distinguish Revised from Unrevised Devices:** N/A

## Attachments:

[RE46C194 Silicon Errata and Data Sheet Clarifications](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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Affected Catalog Part Numbers (CPN)

RE46C194S16

RE46C194S16T

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## RE46C194 Silicon Errata and Data Sheet Clarifications

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The functionality of the RE46C194 device is described in the “*RE46C194 Data Sheet*” (DS20006214B), except for the anomalies mentioned below. The issues described in this document will be addressed in a future revision of the “*RE46C194 Data Sheet*”.

### 1. Module: LTD Operations

The normal alarm limit maximum value can cause an error when calculating new alarm limits.

**Work around:**

Disable the RE46C194 LTD function by setting the LTD Enable Control bit (bit 50) to zero.

**Date Codes that pertain to this issue:**

Date codes prior to 2232 have this issue.

### 2. Module: Smart IO Operations

With Smart IO function enabled and continuous horn pattern selected, the alarm for low battery does not work and the Hush and RLED timings are effected (reduced).

**Work around:**

Disable continuous horn pattern by setting the horn pattern bit (bit52) to 1 - temporal horn pattern.

**Date Codes that peratin to this issue:**

Date codes prior to 2232 have this issue.

### Data Sheet Clarifications

In the “*RE46C194 Data Sheet*” (DS20006214B), the following clarifications and corrections should be noted:

The reduced operating temperature range is  
 $T_A = 0^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .

**Date Codes that pertain to this issue:**

Date codes prior to 2232 have this issue.

# RE46C194

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## APPENDIX A: REVISION HISTORY

### Rev. B Document (September 2022)

- Added correction to [Section 1. Module: “LTD Operations”](#);
- Added [Section 2. Module: “Smart IO Operations”](#);
- Added mention in [Data Sheet Clarifications](#).

### Rev. A Document (January 2020)

- Initial release of this document.

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