

3070 – 105A

Modification Available Performance Enhancement Service Note

Supersedes:
3070-105

Keysight i3070 In-Circuit Test System

E9905E, E9905EL, E9903E, E9902E, E9901E, E9901EL
E9988EL, E9988E, E9986E (inline)
E9905G, E9903G, E9902G

Serial Numbers: ALL
Manufacturing ID Number: NA

The Problem – Specification revise for i3070 ASRU Revision N DC Voltage Detection

Parts Required:

P/N	Description	Qty.
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NONE

ADMINISTRATIVE INFORMATION

Calibration Required
 Calibration NOT Required

PRODUCT LINE: PL80
AUTHOR: Wee Sheng

ADDITIONAL INFORMATION:

Situation:

Analog Stimulus Response Unit (ASRU) Revision N was shipped with i3070 Series 5 or latest Series since 2009. Over time, various engineering change orders (ECOs) have been implemented to address obsolesces components on the card.

Consequently, adjustments to the test limits for the DC voltage detection were necessary to align with the hardware's behaviour across all the software versions.

Solution/Action:

To maintain the accuracy of DC Voltage Detection for ASRU Revision N, refer to the correct specifications provided below. A software patch has been developed to revise the test limits specification, ensuring alignment with the hardware's behavior.

Accuracy ¹	Normal	$\pm (0.02\% \text{ of reading} + 0.05\% \text{ of range} + 300 \mu\text{V})$ $\pm (0.1\% \text{ of reading} + 0.2\% \text{ of range} + 600 \mu\text{V})$ for ASRU-N
	Line Rejection	$\pm (0.02\% \text{ of reading} + 0.05\% \text{ of range} + 300 \mu\text{V})$

1. Add 0.12% of reading for attenuated ranges.

- For systems that have installed or upgraded to ASRU Revision N and are using i3070 software version 08.00p and later. It is highly suggested to apply the latest software patch for most up-to-date test limits specification. There is no risk to the quality of your product testing.
- For further assistance or to obtain the latest software patches, please reach out to your local Keysight representation.

Revision History:

Date	Service Note Revision	Author	Reason for Change
17 Jan 2024	01	Wee Sheng	As Published