



## **SAR Exclusion Evaluation Report**

**FCC 47 CFR § 2.1093  
IEEE Std 1528-2013  
KDB 447 498 D01**

*For*  
**Newton's Meter**

**FCC ID: 2ATZ5-NMSERIESA01  
Model Name: NM\_SERIES\_A01**

**Report Number: 4788873577-US-S0-V0  
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*Prepared for*  
**Newtons Meter Pte Ltd.  
#27-15, International Plaza, 10 Anson Road**

*Prepared by*  
**Underwriters Laboratories Taiwan Co., Ltd.  
Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd.,  
Zhudong Township, Hsinchu County, Taiwan  
TEL: +886-2-7737-3000  
FAX: +886-3-583-7948  
Website: www.ul.com**





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**Revision History**

| Rev. | Date      | Revisions               | Revised By |
|------|-----------|-------------------------|------------|
| V1   | 7/17/2019 | Initial Issue           | Sky Zhou   |
| -    | 7/24/2019 | Modify the whole report | Sky Zhou   |
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**1. Attestation of Results ..... 4**

## 1. Attestation of Results

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| Applicant Name   | Newton's Meter Pte Ltd.  |
| FCC ID   | 2ATZ5-NMSERIESA01  |
| Model Name   | NM_SERIES_A01  |
| Applicable Standards   | FCC 47 CFR § 2.1093<br>Published RF exposure KDB 447498 D01 procedures<br>IEEE Std 1528-2013 |
| Date of Calculate  | 7/22/2019  |
| <b>General SAR test reduction and exclusion guidance</b>   |  |
| <p>By KDB 447498 section 4.3,<br/>For Standalone SAR exclusion consideration, when the considering SAR exclusion Threshold requirement in KDB 447498 is satisfied standalone SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.</p> <p>For 100MHz to 6GHz and test separation distances <math>\leq 50\text{mm}</math>, the SAR test exclusion threshold will be determined as follows :</p> $NT = [(MP)/TSD] \cdot \sqrt{f_{\text{GHz}}}$ <p>NT = Numeric Threshold (3.0 1-g SAR and 7.5 10-g SAR)<br/> MP = Max Power of channel (mW) included tune up = 1.5dBm = 1.41mW<br/> TSD = Min test separation distance or 50mm (whichever is lower) = 5mm<br/> <math>f_{\text{GHz}}</math> = Transmitter frequency = 2.48GHz<br/> So the <math>NT = [(1.41)/5] \cdot \sqrt{2.48} = 1.575 &lt; 3.0</math>, therefore, there is no SAR test requirement for this equipment.</p>  |  |
| <p>Underwriters Laboratories Taiwan Co., Ltd., evaluated the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd., based on interpretations and/or observations of test results. The results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.</p> <p><b>Note:</b> The results documented in this report apply only to the sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd., and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd., will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of any government. This report is written to support regulatory compliance of the applicable standards stated above.</p> |  |
| Approved and Authorized By:  | Prepared By:   |
|   |          |
| Stanley Wu<br>Senior Project Engineer<br>Underwriters Laboratories Taiwan Co., Ltd.  | Sky Zhou<br>Engineer<br>Underwriters Laboratories Taiwan Co., Ltd.                           |

**END OF REPORT**