



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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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

Applicant Name	Newton's Meter Pte Ltd.
FCC ID	2ATZ5-NM SERIES A01
Model Name	NM_SERIES_A01
Applicable Standards	FCC 47 CFR § 2.1093 Published RF exposure KDB 447498 D01 procedures IEEE Std 1528-2013
Date of Calculate	7/22/2019

General SAR test reduction and exclusion guidance

By KDB 447498 section 4.3,

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.

For 100MHz to 6GHz and test separation distances \leq 50mm, the SAR test exclusion threshold will be determined as follows :

$$NT = [(MP)/TSD] * \sqrt{f_{GHz}}$$

NT = Numeric Threshold (3.0 1-g SAR and 7.5 10-g SAR)

MP = Max Power of channel (mW) included tune up = 1.5dBm = 1.41mW

TSD = Min test separation distance or 50mm (whichever is lower) = 5mm

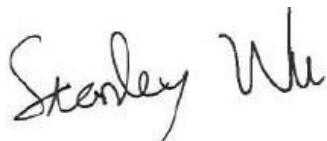
f_{GHz} = Transmitter frequency = 2.48GHz

So the $NT = [(1.41)/5] * \sqrt{2.48} = 1.575 < 3.0$, therefore, there is no SAR test requirement for this equipment.

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.

Note: 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.

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END OF REPORT