

FCC SAR EXCLUSION STATEMENT

PER

447498 D01 GENERAL RF EXPOSURE GUIDANCE V06

Client:	Seeley International Pty Ltd
Address:	112 O'Sullivan Beach Road, Lonsdale, SA 5160, Australia
Report Number:	0314SEELEY_MQWC(Controller)_SARExempt(FCC) <i>[This report supersedes report 0306SEELEY_MQWC(Controller)_MPE(FCC)]</i>
File Number:	SEELEY161223
Equipment Name:	MagIQtouch Wireless Smart Controller
Equipment Model No:	MQWC
Equipment FCC ID:	R2ESIA18
Equipment Description:	MagIQtouch Wireless Smart Controller
Result:	COMPLIES (General Public Exposure, Non-Aware User)
Assessed by:	Colin Gan 
Approved by:	Phillip Kane 
Date of Issue:	14 Mar. 2019

Results appearing herein relate only to the sample(s) assessed through the submitted test report(s).

This report is issued errors and omissions exempt and is subject to withdrawal at Austest Laboratories discretion.

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EQUIPMENT DETAILS Note 1	
MANUFACTURER:	Seeley International
MODEL:	MQWC
OPERATING FREQUENCY:	915.1 MHz to 927.1 MHz
TRANSMITTER POWER INTO ANTENNA:	12.4 dBm (17 mW)
TYPE OF ANTENNA:	Permanently connected wire antenna, approx. 7.5 cm long (both units)
ANTENNA GAIN:	-5 dBi

Notes:

1. Data taken from Austest FCC report 0312SEELEY_MQWC(Controller)_FCC15C.

SAR Exclusion Justification

Although the body will be 20cm or greater from the equipment when in use, the extremity will be closer than 20cm when in use.

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

a) For 100 MHz to 6 GHz and test separation distances \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR, and } \leq 7.5 \text{ for 10-g extremity SAR}$

$(17 \text{ mW} / 5 \text{ mm}) \times \sqrt{0.9271 \text{ GHz}} = 3.3$ (which is less than 7.5 for extremity SAR)

where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

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Austest Summary and Recommendations:

The equipment is exempted from FCC extremity SAR compliance based on the exclusion justification above.

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