AUSTRALIAN NATIONAL TESTING LABORATORIES PTY. LTD.

Traffic Control Equipment Power Measurements

Test Report # 5338.21

Customer Name: Sage Automation Pty Ltd

Address: F22 / 6 MAB Eastern Promenade
1284 South Road
Tonsley SA 5042

Date: 25.07.2023

Report Written By:
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Approved Signatory:
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1 Introduction

Australian National Testing Laboratory (ANTL) was commissioned to carry out testing on traffic control equipment to determine the power usage in accordance with the NEM Load Table (Unmetered Loads) requirements.

2 Parts Description

SAMPLE -

AGD Radar Sensor, Manufactured by AGD-Systems.com – (Model Number **318-500-000**)

combined with 100-240VAC to 24VDC 0.5A Din Rail power supply.

And Phoenix Contact (**STEP-PS/1AC/24VDC/0.5**)

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3 Photographs of Tested Equipment

Phoenix Contact power supply used for tests.

AGD Radar Sensor, Manufactured by AGD-Systems.com – (Model Number **318-500-000**

4 Instrumentation

The table below shows the instrumentation used to carry out the test.

Parameter	Instrument Make	ANTL Instrument #
Ambient Air Temperature and Humidity	Datataker DT80	ER74
Power	EDMI MK6 class 0.2	ER051
Power Factor	EDMI MK6 class 0.2	ER051
Current	EDMI MK6 class 0.2	ER051
Voltage	Tektronic 6.5 Digit DMM	ER084
Resistance	Tektronic 6.5 Digit DMM	ER 084
Wind Speed	Testo 510	ER 095

The units under test were preconditioned for a period of 1hrs before power measurements were taken, each device was tested in a standby condition and in a loaded condition. These conditions were supervised by connection to the data streams and watching the data traffic for each device while under use. The radar device was placed externally to the building and facing an active traffic intersection on the street as required by the installation manual, with a mounting height of 5m and 30m from the street, this represents a normal installation.

The laboratory temp was 23.5 deg C and 43% relative humidity during the tests.

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5 Test Results

5.1 Power Measurements- AS/NZS 60335.1 clause 10

Model	Volts	Current (A)	Power Factor	Watts – Operating (loaded condition)	Watts – Standby Mode
AGD Radar Sensor and power supply	240	0.0175	0.95	4.0	3.7

--- End of Report ---

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