AUSTRALIAN NATIONAL TESTING LABORATORIES PTY. LTD.

Traffic Control Equipment Power Measurements

Test Report # 5338.11

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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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 1 -

SAGE Edge – communications data transceiver, manufactured by Sage Automation.

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

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

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3 Photographs of Tested Equipment

SAGE Edge – communications device.

Phoenix Contact power supply used for tests.

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, the SAGE Edge 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. Several active wifi connections and Blue Tooth devices were placed near the device to provide a loaded condition and activate the devices detection circuits. 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
SAGE Edge and power supply	240	0.0281	0.95	6.4	5.9

--- End of Report ---

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