

Quick Start Guide

Version 2.0
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PIXIE

PIXIE Smart Zone Controller

SZC248N/R/BTAM

1. Foreword

IMPORTANT: IN THE INTEREST OF PRODUCT PERFORMANCE AND SAFETY PLEASE READ THESE GUIDE AND WARRANTY INSTRUCTIONS BEFORE INSTALLING THE PRODUCT.



SAL products are designed in accordance with all mandatory International and Australian Standards, which require installation in accordance with AS/NZS3000 by a qualified installer and regular cleaning and maintenance of the equipment. Products are sold in accordance with the following instructions and SAL standard terms and conditions of sale, available via www.sal.net.au.

Due to continued product and information updates, product data sourced from sal.net.au shall not form part of any contract and or technical performance guarantee unless expressly confirmed in writing by SAL at the time of order. The product wireframe drawings in this document are intended for illustration purposes only and may differ from the final physical product. The installation instruction is subject to change without prior notice.

2. Product Introduction

The PIXIE Zone Controller is an 8-channel Bluetooth® mesh 24V AC damper controller with spill-zone and on-device control buttons, delivering fast, smart zoning for ducted aircon systems in Australia by opening and closing 24V AC dampers to allow or stop airflow to each zone.

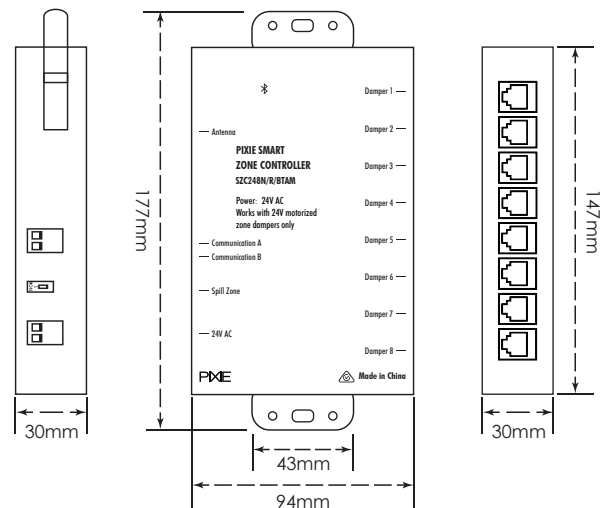
2.1 Product Features

- Controls up to 8 channels (8 zones)
- Customizable spill zone setting
- Unused channels can be disabled (hidden) in the App
- Works with popular 24V motorised dampers with RJ12 connection
- Durable metal case, high performance antenna
- Detachable terminal plug connectors for easy wiring
- On-device buttons for easy setup, test and commissioning
- LED indicators for working status display

2.2 The package includes

- PIXIE Smart Zone Controller * 1
- Quick Start Guide * 1
- Antenna * 1
- Terminal plug connector for power input (orange) * 1
- Terminal plug connector for communication (green) * 1

2.3 Product illustration*



*All drawings shown are for illustration purpose only, actual product may vary due to product enhancement.

3. Specifications

Model NO.	SZC248N/R/BTAM	Input	24V AC
Product Application	24V motorised zone dampers	Output	24V AC via RJ12 connectors
Operation Ambience Temperature (°C)	0 ~ 40	Storage Ambience Temperature (°C)	0 ~ 60
Operation Humidity	10% - 85% RH, NC	Storage Humidity	10% - 85% RH, NC
IP Rating	IP20	Role in PIXIE System	Master

4. Installation and Wiring**

4.1 Preparation

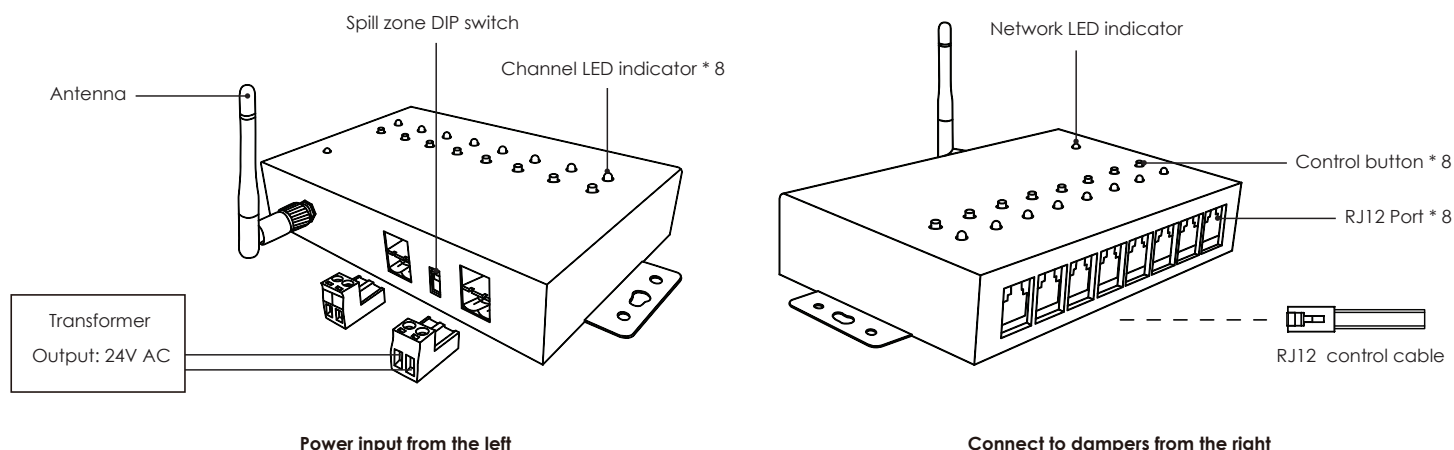
- Please prepare suitable 24V motorised zone dampers and control cables with RJ12 connectors
- Please prepare 24V AC transformer, whose rating must match the selected zone dampers
- Please mount the antenna to the antenna base

**This product must be installed by a qualified installer.

4.2 Installation

1. Turn OFF the mains power supply
2. Connect the 24V transformer output to the orange terminal plug connector, plug the connector into the orange socket of the PIXIE Smart Zone Controller
3. Connect the control cable between zone dampers and the PIXIE Smart Zone Controller, via plugging RJ12 connectors to the corresponding ports
4. Mount the PIXIE Smart Zone Controller firmly to a desired location

4.3 Wirings and functions



4.4 Configuration

1. Supply power, wait 10 seconds to allow warm-up
2. Set the **Spill zone DIP switch** according to need, refer to the **DIP Switch chart** on the right
3. If the DIP switch is set to ON, select and set a preferred damper channel as spill zone (default is Damper 1)
4. Disable unused channel if a clean control interface in the App is preferred
5. Add the PIXIE Smart Zone Controller into the App, the Bluetooth® **Network LED indicator** will turn blue when being successfully added

Dip switch	Function
ON	Enable spill zone function
OFF	Disable spill zone function

DIP Switch Chart

5. Operation

5.1 Button operation

There are 8 channel LED indicators and 8 control buttons on this device, each channel LED indicator indicates the status or setting of the corresponding channel. Apart from basic control, each control button can be used to configure the corresponding channel, and even the whole device. Below is the operation introduction by functions.

Turn on/off damper: Single press a control button is to toggle the on/off status of the corresponding damper. The LED indicator is in solid red when the damper is closed and the LED indicator is in solid green when the damper is open.

Pairing: Quickly 4 press a control button is to let that channel enter pairing mode (pair with a secondary device in PIXIE system, e.g. to allow a PIXIE Multifunction Control to control this channel damper remotely), the corresponding LED indicator will quickly flash in red and green for 30 seconds, and will stop flashing when the pairing mode ends.

Set a channel as spill zone: While the **Spill zone DIP switch** is set to **ON**, press and long hold a control button for 5 seconds, when the corresponding LED indicator flashes in green for 10 seconds, this channel is successfully set as the new spill zone. The function of spill zone is, when all available channels are turned off accidentally by the user, this channel will enter **spill zone** mode, the channel damper will be kept open automatically, and can only be closed when at least one more other channel is turned on. Channel **Damper 1** is the default spill zone. Please be aware there is only one spill zone allowed in one product, once a channel is set as the new spill zone, the previous spill zone channel will lose spill zone function.

Identify spill zone: While the **Spill zone DIP switch** is set to **ON**, press and long hold **Damper 1** and **Damper 2** control button (together) for 5 seconds, the LED indicator of the spill zone channel will quickly flash in red and green for 10 seconds.

Disable/enable a channel: Quickly 7 press a control button is to disable/enable that channel. When a channel is disabled, the corresponding LED indicator will be off, any single press, long press or 4 presses on the button will no longer be responded. When a channel is enabled, the LED indicator will flash in green for 5 seconds then indicate the channel damper status. This function is applicable where there are some unused channels on the product, and the user would like to hide them in the App to keep the interface clean.

Reset this product: Quickly 9 press any control button will reset the PIXIE Smart Zone Controller, all data will be cleared, all settings will be reset to factory default. The **Network LED indicator** will flash in blue and white for 3 seconds, then stay at white when the reset is successful.

5.2 The LED indicators

Indicator	Indicator status	Status Explanation
✱	Solid white	This device is new or factory reset
	Solid Blue	The device was added into a PIXIE HOME (network)
Damper 1 to Damper 8	Solid green	This channel damper is on (open), airflow is allowed
	Solid red	This channel damper is off (closed), airflow is stopped
	Quickly flash in red and green	This channel is in pairing mode
	Off	This channel is disabled, it will not be shown in the App
	Slowly flash in green (spill zone only)	All channels were accidentally turned off, spill zone is in force, the spill zone damper will be open automatically

6. How to download App

Scan QR code or go to App store (IOS) or Google Play (Android) to download the free PIXIE app to your smart phone.

IOS: Requires IOS 6.0 or later. Compatible with iPhone, iPad and iPod touch

Android: Requires Android 4.4 or above, devices must support Bluetooth 4.0

Specifications above are for reference only and may vary without prior notice.



7. Warranty

In accordance with SAL's standard terms and conditions of sale, SAL warrant this product to be free from defects in materials and or workmanship for a period as stated below for goods not subject to incorrect installation, maintenance, operation, mishandling, environmental, unauthorised modifications or electrical operating conditions outside the nominated product specification as detailed in these installation instructions.

The benefits to you given by this warranty are in addition to other rights and remedies you have under law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Warranty term – Residential usage (12) months, Commercial usage (12) months

7.1 How to make a claim?

Step #1 – Within 30 days of the fault discovery, please contact the original place of the SAL product purchase during standard (local) business hours, with the following information (a) proof of purchase (b) description and quantity of the claimed fault (c) address of installation. (d) operating hours of the product.

Step #2 – It is then the responsibility of the original place of product purchase to report the matter to SAL aftersales;

NSW ACT	SAL National Pty Ltd, 40 Biloela Street Villawood NSW 2163	P # 02 9723 3099
QLD	SAL National Pty Ltd, 36 Whitelaw Place Richlands QLD 4077	P # 07 3879 5999
VICT TAS SA NT	SAL National Pty Ltd, 46-48 Keys Road Moorabbin Victoria 3189	P # 03 9532 3168
WA	SAL National Pty Ltd, 29 Beringarra Av Malaga WA 6090	P # 08 9248 7458

Step #3 - Upon review of your claim and if the product is required to be returned to SAL for technical evaluation, then at the owners expense the product must be returned to SAL as per the above nominated locations.

Step #4 - Pending the evaluation, the claim will be validated resulting in the product being repaired or replaced with the same or best equivalent product at the discretion of SAL, or rejected if the product fault was found to be caused by conditions beyond the responsibility of SAL warranty obligations. Consideration of installation, product removal, return freight and or testing fees are not the responsibility of SAL.

8. Scan QR code to access the full product information

