

SYGNAI

AMBIENT INTELLIGENCE



Signal Ambient Intelligence Z-Plus Navigator Operation Manual

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This Technical Manual describes the service and troubleshooting of Signal Digital Inverter Ducted split air conditioners.

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Sourcing

Proudly designed and manufactured in Australia by Signal, an independent Australian-owned company.

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1. Z-Plus Navigator Operation

1.1 Zplus Navigator Button Layout



1.2 Turning Zones ON and OFF

To turn the whole system on or off press the Power button on the main screen.



1.3 Selecting the Mode

To change between modes Auto, Heat, Cool and Vent

1. Move the green box using the UP/DOWN arrows over the mode selection in the top left corner of the screen.
2. Press the "Set" Button and the box will turn Red.
3. Use the UP/DOWN arrows to change the mode.
4. Press "Set" again to change to change the box to green allowing you to move the box around the screen.



1.4 Selecting the Fan Speed

To change the speed of the fans between High, Medium, Low and Auto.

1. Move the green box using the UP/DOWN arrows over the fan selection in the top right corner of the screen.
2. Press the "Set" Button and the box will turn Red.
3. Use the UP/DOWN arrows to change the mode.
4. Press "Set" again to change to change the box to green allowing you to move the box around the screen.



1.5 Changing the Systems Temperature Target

To change the temperature setting you wish your system to reach.

1. Move the green box using the UP/DOWN arrows over the temperature in the centre of the screen.
2. Press the "Set" Button and the box will turn Red.
3. Use the UP/DOWN arrows to change the temperature.
4. Press "Set" again to change to change the box to green allowing you to move the box around the screen.



1.6 Accessing the Time Settings

To change the temperature you wish your system to reach.

1. Move the green box using the UP/DOWN arrows over the Time located on the bottom left of the screen.
2. Press the "Set" Button and a new Time settings screen will appear.



1.7 Changing the Time

To change the time clock of the system, when in the "Time Settings" screen

1. Move the green box using the UP/DOWN arrows over the "Edit Time" section and press "Set" the box will turn red.
2. Use the UP/DOWN arrows to move between day/hour/minute.
3. Press the "Power" button on the function you wish to change. (will turn dark blue)
4. Use the UP/DOWN arrows to change the value of the selection.
5. Press the "Power" again to change another value if needed.
6. Press "Set" to confirm.

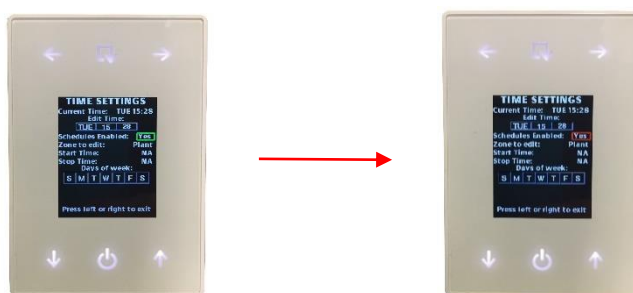


1.8 Time Schedules

1.8.1 How to Enable Time Schedules

This selection will either enable or disable the use of ON and OFF time events for your system or zone.

1. Move the green box over the “schedules enabled” and press “Set” the box will turn red.
2. Use the UP/DOWN to change the value between Yes and No.
3. press “set” to change back to green.



1.8.2 Setting the Time Schedules

This selection allows you to set a start and stop time for a Zone or the whole system.

1. Move the green box over the “Zone to edit” press the “Set” button to change to red.
2. Use the UP/DOWN arrows to select the zone you wish to set or PLANT to select the whole system. This enables editing for either the zone or the whole system.
3. Press the “Set” button again to change the box to green.
4. Scroll to the “Start Time” and press “Set” to change the box to red.
5. Use the UP/DOWN arrows to change the time you wish the system to turn ON.
6. Press the “Set” button again to change the box to green.
7. Scroll to the “Stop Time” and press “Set” to change the box to red.
8. Use the UP/DOWN arrows to change the time you wish the system to turn OFF.
9. Press the “Set” button again to change the box to green.



10. Scroll to the “Days of week” and press “Set” to change the box to red.
11. Press the “Power” button on the day of the week you wish to change. (will turn dark blue)
12. Use the UP/DOWN arrows to change the day of the week you wish to set. When the letter is small it is not enabled when the letter is large the day of the week is enabled. E.g. Saturday S-enabled s-disabled



Example of a schedule – *The whole system will turn on at 6pm and off at 10pm on the weekends.*

Schedule enabled - Yes

Zone to edit - Plant

Start Time - 18:00

Stop Time - 22:00

Days of the week

S m t w t f S

NOTE: To exit the time schedules screen at any time press the LEFT/RIGHT arrows.

1.9 Changing the Airflow in a Zone

How to change the amount of air flowing into a zone.

1. Use the LEFT/RIGHT arrows to cycle between the zones
2. Press “Set” to change the box to red.
3. Use the UP/DOWN arrows to change the percentage of airflow to a zone. (0-100)
4. Press “Set” again to change the selector box to green.



2. Troubleshooting

Problem	Possible Solution
Air Conditioner has restarted but does not operate for 4 minutes	The normal operating behaviour to protect the compressor. Wait until the air conditioner begins operating.
Operation stops for up to 12 minutes during heating and a different noise/sound comes from the unit.	The unit has entered defrost mode to melt the frost which has accumulated on the outdoor unit. This will take no longer than about 12 minutes so wait for the unit to resume normal operation. (Frost accumulates on the outdoor unit when the outdoor temperature is low and the humidity is high. Water comes out from the outdoor unit).
The air conditioner does not operate.	<p>Has the mode been set correctly? Is at least one zone ON. Has the setpoint for ON zones been set low enough for cooling or high enough for heating? Has the circuit breaker been tripped?</p>
The air conditioner does not cool/heat effectively.	<p>Has the mode been set correctly? Are all the windows and doors closed? Are the filters dirty? Are the intake or outlet vents of the outdoor unit obstructed? The outside temperature maybe below or above design conditions. Turning OFF any zones not required may help.</p>
<p>Abnormal noise is heard during operation (except during the defrosting operation). Water leaks from the indoor unit. Switches or buttons do not operate properly. Fault code is displayed on the controller.</p>	Contact your installer. Your model and serial number is recorded on the inside of the last page of this booklet.

3. Warranty Terms and Conditions

All goods which are the company's own are guaranteed against faulty workmanship, materials or design for a period of 12 months from the date of despatch, after which all liability on the part of the Company ceases, save:

a) Goods which are branded Sygnal, registered with Sygnal prior to the expiration of the standard 12 month warranty period, form part of the air conditioning unit and are used in a human comfort application. These goods are guaranteed against faulty workmanship, materials or design for a period of 60 months from the date of system commissioning or 72 months from the date of despatch which ever expires first.

The Guarantee does not apply in the following cases:

b) Defect arising from materials supplied by the Purchaser or from a design requested by the Purchaser.

c) Replacements or repairs resulting from normal wear of units and machinery, corrosive atmosphere, damage or injury caused by lack of care, insufficient inspection or maintenance, or improper use of the goods.

d) Failure attributable to fortuitous circumstances or "force majeure"

The guarantee consists of repairing, modifying or replacing the parts or units recognised as defective within the shortest time at the Company's premises at the Company's expense save parts that are branded Sygnal and form part of the air conditioner, these parts will be repaired at the installation location providing the location is within 100km from the Company's premises or the premises of an appointed Agent or Dealer. The guarantee is inclusive of parts and labour. Subject to the above, the Company's liability and that of its resellers is wholly limited to the original cost of the product sold. Any unauthorised repairs or alterations to the equipment shall invalidate this warranty. In case of goods not of the manufacture of the company or its principals, the Company undertakes that it will, if requested in writing by the Purchaser to obtain from the manufacturer the benefit of any guarantee or warranty which the manufacturer may have expressly given as to the quality or fitness for any purpose of the goods, except as may otherwise be provided for by law. The fulfilment of this undertaking shall constitute the Company's sole liability in respect of any faulty goods of the manufacture of the Company or its principals. Neither the reseller nor the Company shall be liable for any injury, damages, expenses, or loss of profit, direct or consequential, arising out of the use or installation of products supplied by the Company all of which are supplied at the sole risk of the user. This warranty is in addition to any statutory warranty which a Purchaser cannot waive but all other warranties are waived by the Purchaser.

Sygnal Ambient Intelligence has developed the most advanced direct expansion vapour compression air conditioning control system commercially available. A major advantage of this control system is that it limits disruptions to your work or social schedule by limiting the number of times a system needs to be physically accessed by a technician. The cumulative costs of additional access events over the life of a system is significant in time and money. Most systems are installed in a confined space and physical access comes with associated risks such as safety issues and damage to property. WHOS legislation in many jurisdictions requires a safety spotter for access in confined space or rooftop access. Sygnal Ambient Intelligence has developed a diagnostic system that dramatically reduces the need for access and by doing so reduces risk to the health of technicians, reduces risk of property damage, reduces disruption to your work, family or social life and reduces the overall cost of warranty and support cover for the life of the system. Sygnal Ambient Intelligence Pty. Ltd. have calculated the cost of warranty on this basis and require that each SAI system is connected to a network and has internet access. If you plan on installing a system that does not have network and internet access, please contact SAI to better understand the impact on warranty cover.

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4. Warranty Key Points in Large Print.

Sygnal HVAC systems used in human comfort applications are covered by a parts and labour on-site warranty as explained in detail later in this document. Sygnal is committed to making sure that our clients get years of trouble free operation from what we believe to be the world's best residential concealed ducted air conditioning system. Like all warranty policies the Sygnal HVAC warranty provides peace of mind for clients and details the rights and responsibilities of Sygnal and the client.

HVAC systems like all machines require regular maintenance. If regular maintenance is not completed the system operation is compromised and although Sygnal systems have many safety systems built into their operation system longevity will be compromised. In most residential environments a single service per year completed in accordance with the programmed maintenance schedule is sufficient to ensure that system performance is not compromised and warranty terms and conditions are met.

Sygnal tracks all activity relating to your system and all other systems no matter where they are installed. This allows us to make sure that all performance information is passed directly back to our Engineering Team so that Future Sygnal systems can continue to set a new standard in product reliability. Tracking all system activity also helps our Service Team identify any environmental factors, unusual activity or a repeat faults. To achieve the required level of tracking to provide peace of mind for our clients we require that all systems are registered on the Sygnal website within the first twelve months of operation. Immediately on completion of the online registration form a unique identifier will be sent to the nominated email address, your system warranty will be extended from twelve months to six years from date of manufacture or five years from date of installation (whichever expires first).

Sygnal Ambient Intelligence has developed a diagnostic system that dramatically reduces the need for access and by doing so reduces risk to the health of technicians, reduces risk of property damage, reduces disruption to your work, family or social life and reduces the overall cost of warranty and support cover for the life of the system. Sygnal Ambient Intelligence Pty. Ltd. have calculated the cost of warranty on this basis and require that each SAI system is connected to a network and has internet access. If you plan on installing a system that does not have network and internet access, please contact SAI to better understand the impact on warranty cover.

1. Register your system: <https://www.sygnal.com.au/register-your-system>
2. Keep your system well maintained (If a fault occurs due to lack of maintenance or would have been rectified sooner if noted during programmed maintenance your claim may be declined or reduced).
3. Be mindful of possible travel charges (is there an appointed service agent within 100km from your home?).
4. Be mindful of broader system components that are not unmanufactured by Sygnal and may have different warranty terms and conditions (This may include iPads, motorised dampers, three phase soft start modules, ductwork, diffusers and grilles).
5. Be mindful that in the rare event that a failure occurs the replacement component is covered by twelve months or the remaining term of the system wide warranty whichever is the longest.

System Registration

Registration No. Date Issued.