Genus II
FM Remote

INSTALLATION AND

OPERATING INSTRUCTIONS

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INTRODUCTION

Congratulations! You have purchased a high quality Remote Equipment Centre. Please read the instructions carefully and your purchase will provide you with years of trouble free use.
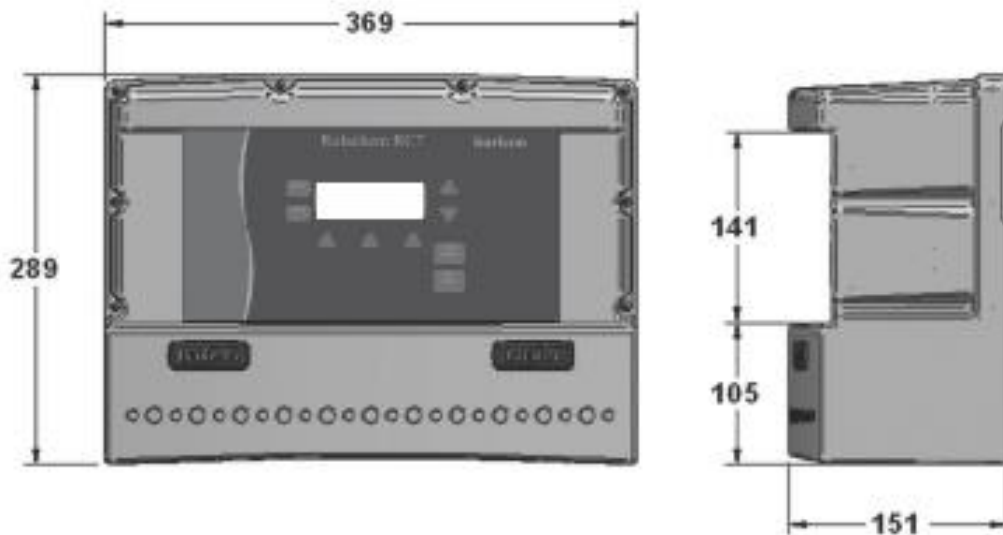
The Genus II FM Remote system has two main components, the FM control and the equipment centre. The FM remote enables you to turn pool components such as pumps, blowers and lights on and off. The equipment centre is where your pool components are connected and has a manual override for the pump and, in the timer version, comes with a timeclock that enables you to set on/off times for the pump.
Note:
The appliance is not intended for use by young children or infirm person without supervision. Please ensure that young children are supervised to ensure that they do not play with the appliance.

PACKING LIST

1. 1 x Equipment centre control box
2. 1 x FM remote handset (with description labels)
3. 1 x Equipment centre control box mounting bracket
4. 1 x Set of mounting screws and wall plugs
5. 1 x Instruction and warranty booklet

INSTALLATION

WARNING!
The combined load of equipment operated must not exceed 35 Amps for hardwired versions and 10amps for models with 3 pin plug and lead. Hardwired versions must be fixed wired by a licensed electrician. The maximum load from any one outlet must not exceed 10 amps.

The equipment centre must be installed where it is protected from direct sunlight and rain.

The FM Control handset is not water resistant. Therefore water must be avoided.

- The Genus II remote control equipment centre box has an IPX3 rating and must be installed where it will receive protection from direct sunlight and rain. This equipment control box must be located outside of the pool zone, a minimum of 3.5m from the waters edge.
- If installing on a brick or concrete wall, use a 7mm masonry drill. Mounting screws should be 190mm apart and at least 1600mm above ground level.
- If installing on a post, first attach a flat waterproof panel at least 300mm wide by 500mm long. Make sure the control is located centrally on the panel and sits flat.
- If unit is supplied with a 3 pin 10A plug, ensure connection is plugged into a suitable weatherproof outlet.
- Plug equipment into corresponding outlets on underside of equipment control box and secure bottom tray cover in place.
- Apply description labels (supplied) to FM handset to show designations of buttons.
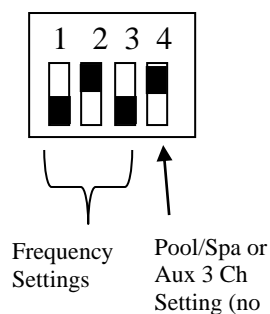
FM REMOTE MOUNTING BRACKET

The Equipment Centre comes with a wall mounting bracket so it can be securely fixed to any wall. It is recommended that the Equipment Centre be hung where it is protected from direct sunlight and rain.
1. Remove wall mounting bracket from Equipment Centre by un-doing the screw located near the pump socket.
2. Screw mounting Bracket to wall.
3. Engage the Equipment Centre's top rear edge with the joggled section on the top of the bracket.
4. Align the hole in the underside of the Equipment Centre with the hole in the lower face of the mounting bracket and secure.

FM REMOTE SETTINGS

Changing the Frequency
If your FM remote interferes with other FM controlled devices the operating frequency may be changed using the dip switches located underneath the battery cover. To teach the system the new frequency, change the Dip switches as described below, turn off the power to the Equipment Centre, wait 30 seconds and restore power. Whilst within 1 metre of the Equipment Centre, press any one of the FM remote buttons. The system will now learn the new setting.

Frequency Settings

Pool/Spa or Aux 3 Ch Setting (no

OPERATION

FM CONTROL

Button 1 Turns Auxiliary 1 On or Off
Button 2 Turns Auxiliary 2 On or Off
Button 3 Turns Auxiliary 3 On or Off.
Button 4 Turns Auxiliary 4 On or Off.
Button 5 Not Used.
Button 6 Not Used
Button 7 Not Used
Button 8 Not Used

TIMECLOCK (OPTIONAL)

If your controller has a time clock you can set your filtration pump to automatically filter your pool on a daily basis. It is generally recommended that the filter pump is operated for six to eight hours per day during the swimming season. A spa pool filter pump should be operated for around one hour per day to maintain the clarity of the spa water.

1. To program the time clock;
    a. Press and hold clock button
    b. Set day by pressing day button
    c. Set hour by pressing hour button
    d. Set minutes by pressing minute button
    e. Press timer button – period 1 will display and you can set the ON time using the hour and minute buttons
    f. Select day options for the timer period being set (every day or specific days can be selected)
    g. Press timer button and set the OFF time for period 1
    h. Press timer button to set further timer periods (up to 8) or press clock button to return to the main display
    i. Press MANUAL button until indicator line is above the AUTO position.

2. **NOTE: Ensure you always cycle ON/OFF/AUTO selections through the OFF setting (i.e. if you are in ON, you must go to OFF before going to AUTO). Failure to do this may result in equipment continuing to run beyond set timer periods.**

Ensure the pump is plugged into the pump socket underneath the control box.

PUMP TIMER OVER-RIDE SWITCH

A pump timer over-ride switch is located on the front of the equipment centre in case you should require manual control of the pump for the purposes of backwashing, maintenance, etc.
This switch should be in the "Auto" position for normal remote and timer control.
The "On" position turns the pump on regardless of the timer and remote control settings.
The "Off" position prevents the pump operating regardless of the timer and remote control settings.

BATTERY CHANGE

Ensure the handset is clean and dry. Remove the battery cover from the handset. Unplug battery and replace. Slide the cover back into place.

MAINTENANCE OF YOUR GENUS CONTROLLER

Maintenance Schedule: Your new product incorporates moving parts and withstands high velocity water with chemicals in it. Some of these parts will wear in the normal course of use and require regular checks and maintenance. Performing these checks and maintenance will identify parts that have worn and require repair/replacement before further serious damage is sustained. A small amount of regular care and attention to your pool equipment will help ensure long life and trouble free performance.

To protect against extremes of temperature, your unit is vented to allow expensive electronics to cool. Ants and some insects are often attracted to the warmer, dry environment inside the enclosure. We recommend that, with power turned off, you spray a surface insecticide on the surfaces surrounding the control to prevent ant and insect ingress. Repeat every three months or as necessary.

Timing	Maintenance Check	Service action (if required)
Three Monthly	**Check for insects/ants**	Spray a surface insecticide on the surfaces around the unit to prevent ant and insect ingress.

Important note: Regular maintenance is important to ensure long life and trouble free performance of your pool equipment. If unable to perform the maintenance yourself, contact your local AstralPool office who will arrange a trained service technician to perform the maintenance for you.

WARRANTY

AstralPool Australia Pty Ltd (ABN 97 007 284 504) ("AstralPool") provides the following warranty in relation to its Genus II FM Remote ("Product").

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 for 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.

The benefits of this warranty are in addition to any rights and remedies imposed by Australian State and Federal legislation that cannot be excluded. Nothing in this warranty is to be interpreted as excluding, restricting or modifying any State or Federal legislation applicable to the supply of goods and services which cannot be excluded, restricted or modified.

WARRANTY

AstralPool warrants that, subject to the exclusions and limitations below, the Product will be free from defects in materials and workmanship during the warranty period. The warranty periods are set out below and commence 30 days after the date of purchase (to allow for installation). The warranty period may vary for different parts of the Product.

Parts	Warranty Period
Parts	12 months

If a defect appears in the Product before the end of the warranty period and AstralPool finds the Product to be defective in materials or workmanship, AstralPool will, in its sole discretion, either:

(a)   replace or repair the Product or the defective part of the Product free of charge; or
(b)   Cause the Product or the defective part of the Product to be replaced or repaired by an Authorised AstralPool Service Agent free of charge.

AstralPool reserves the right to replace defective parts of the Product with parts and components of similar quality, grade and composition where an identical part or component is not available.

Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

WARRANTY CLAIMS

1.   If a fault covered by warranty occurs, the customer must first contact AstralPool at the contact address listed below, or an Authorised AstralPool Service Agent.

2.   Any warranty claim must be accompanied by:
        (a)   proof of purchase;
        (b)   full details of the alleged defect; and
        (c)   appropriate documentation (such as historical and maintenance records).

3.   The customer must make the Product available to AstralPool or its Authorised AstralPool Service Agent for inspection and testing. AstralPool or its Authorised AstralPool Service Agent will attend the premises where the Product is installed for inspection and testing. If the Product is installed:
        (a)   outside a capital city metropolitan area; and
        (b)   is not within a 20 km radius of an Authorised AstralPool Service Agent;
        then the customer may have to pay a travel fee.

4.   If such inspection and testing finds no defect in the Product, the customer must pay AstralPool's usual costs of service work and testing. If such inspection and testing finds a defect that is not covered by this warranty, the customer must pay AstralPool's usual costs of service work plus any parts and labour required to repair the Product, unless recoverable from AstralPool on the failure of any statutory guarantee under the ACL.

Exclusions

The warranty will not apply where:
(a)   the customer is in breach of the Terms and Conditions of Sale;
(b)   the Product was used for a purpose other than one it was intended for;
(c)   the Product was repaired, modified or altered by any person other than AstralPool;
(d)   the Product has not been installed, maintained and/or operated in complete compliance with the installation and operating instructions and any instructions by AstralPool;
(e)   the Product has been subject to accident, negligence, alteration, abuse or misuse.

The warranty does not extend to:
a)   normal wear and tear;
b)   weather and other environmental conditions including but not limited to storm, flood, and/or heat wave damage; or
c)   service and maintenance items.

Examples of exclusions include but are not limited to:

•   accident, neglect, alteration, abuse or misuse.
•   Water ingress into FM Remote Module and Remote Control, excessive appliance current load on any one or number of power outlets.

Commercial Installations

On commercial installations, such as health clubs, motels/hotels and hydrotherapy facilities, the warranty is limited to parts and in field labour (within capital city metropolitan areas or 20 km radius of Authorised AstralPool Service Agents) for a period of 12 months from the date of purchase plus 30 days to allow for installation.

LIMITATIONS

AstralPool makes no express warranties or representations other than set out in this warranty.

The repair or replacement of the Product or part of the Product is the absolute limit of AstralPool's liability under this express warranty.
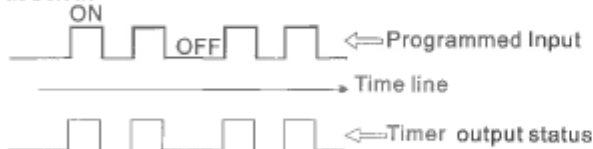
GENERAL INFORMATION

This Panel-Mount Digital Timer series can be operated in 4 separate power supplies, ranges from 240 Vac to 12 Vdc. Output format can be produced to be Volt-free or voltaic-ouput.

Batteries of Lithium CR2032 or rechargeable V80H available for option which is for retaining the programing during Timer's operating power disconnected.

TM-619-series

This Digital Timer is accurate to the minute, designed with either 6 or 8 ON/OFF(event) per day Graphic description, as below:
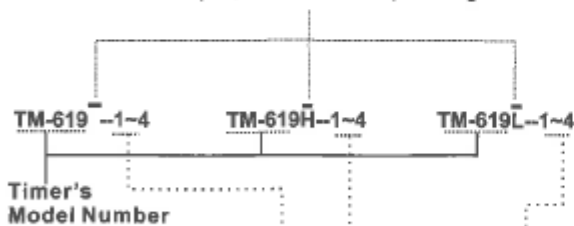

Also, it provides 15-combination of Daily-Programs which can lead great convenience to users upon choosing the required days in a week for operating the timer.

	MO	TU	WE	TH	FR	SA	SU
1.	MO	TU	WE	TH	FR	SA	SU
2.	MO						
3.		TU					
4.			WE				
5.				TH			
6.					FR		
7.						SA	
8.							SU
9.	MO	TU	WE	TH	FR		
10.						SA	SU
11.	MO	TU	WE	TH	FR	SA	
12.	MO	TU	WE				
13.				TH	FR	SA	
14.	MO		WE		FR		
15.		TU		TH		SA	

DESCRIPTIONS TO MODEL CODE

1.12H or 24H clock format 2. 6 or 8 on/off per day 3.Lithium CR2032 or rechargeable V80H batteries above 3 items are prefixed at production.

```
    : Volt-Free contact, 250Vac/16Amp Rating
H  : Volt Output, 250Vac/20Amp Rating
L  : Volt Output, 250Vac/16Amp Rating
```

TM-619 --1~4   TM-619H--1~4   TM-619L--1~4

Timer's
Model Number

1 ~ 4 Power supply for Timer
1: 120Vac ± 10%
2: 240Vac ± 10%
3: 24Vac/Vdc
4: 12Vdc

PROGRAMMING THE TIMER #1

A. Functional description to buttons on panel
1. **TIMER** : Programs review & setting programs
2. **MANUAL** : To select "ON,AUTO or OFF"
3. **CLOCK** : To adjust current DAY and TIME
4. **Day** : To adjust day of week
5. **HOUR** : To adjust Hour
6. **MIN** : To adjust minute
7. ⑧ : Reset Timer's setting
8. **LED** : To indicate ON/OFF status

Press ⑧ button to reset Timer before programming

B. Adjusting CLOCK
Press and hold **CLOCK** and then press **DAY** key, **HOUR** key, **MIN** key respectively to adjust clock of Timer to accurate **DATE**, **HOUR, MINUTE**. In 12-Hour-Format, **PM & AM** shall appear on LCD screen. In 24-Hour-Format LCD screen shall indicate 0:00 ~23:59

C. Start to programming the TIMER
1. Press **TIMER** key. LCD screen shall show

2. Press **DAY** key to select any of 15-combination of Daily-Programs to your application demand. Continuing to press **DAY** key, LCD shall alternating indicate among 15-combinations.

3. Press **HOUR** , **MIN** respectively to set desired Hour and Minute for 1ᴼᴺ

4. After finished setting of 1ᴼᴺ, Press **TIMER** key again, 1ᴼᶠᶠ shall appear on LCD screen.

5. Press **DAY** key to select any of 15-combination of Daily-Programs to your application demand. Continuing to press **DAY** key, LCD shall alternating indicate among 15-combinations.

> Day-combination chosen in each of ON/OFF program-period must be consistent.

6. Repeat Programming procedure "3 " to set desired Hour & Minute for 1ᴼᶠᶠ

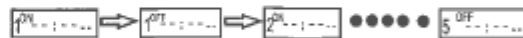7. When finished setting 1ᴼᴺ & 1ᴼᶠᶠ, Press **TIMER**, 2ᴼᴺ shall appear on LCD screen.

8. **Repeat programming procedure above** to complete rest of ON/OFF program-period(event)

or just to the desired number of ON/OFF(event) setting for demand of practicable application.

9. When finished program-setting(event), press **CLOCK** , Timer shall start to execute programs.

D. To review programs
Keep to press **TIMER** , display on LCD screen shall alternating display among each of **6 or 8 ON/OFF**

B1-61900-003B0
VER:20091112

PROGRAMMING THE TIMER #2

E. How to use OVERRIDE functions
619-programming-modeTimer is designed with
2 Override function, so as to widen its usage upon
practicable application. Override function
is effective only when Timer is running
under AUTO mode.

Temporary-Override --- Follow procedure below:

Condition-1 When Timer's output status is "ON"
Pressing **MANUAL** key, to move indicator
from "AUTO" to "OFF", Timer output shall turn
to "OFF" status, programs overrided.
Pressing **MANUAL** again to switch Timer status
to "AUTO", Timer's output shall continue
maintaining "OFF". Timer shall resume its automatic
operation when next program(event) calls for "ON".
(With next opposite set point).

Condition-2 When Timer's output status is "OFF"
Pressing **MANUAL** key, to move indicator from
"AUTO" to "ON", timer output shall turn to "ON"
status, programs overrided.
Pressing **MANUAL** again to switch Timer status
to "AUTO", Timer's output shall continue maintaining
"ON". Timer shall resume its automatic operation
when next program(event) calls for "OF".
(Until next opposite set point)

Random-Start-Up Override – Press and hold **DAY**
key and then press **MIN** key. There shall be a symbol
shows on left corner of LCD screen, to indicate
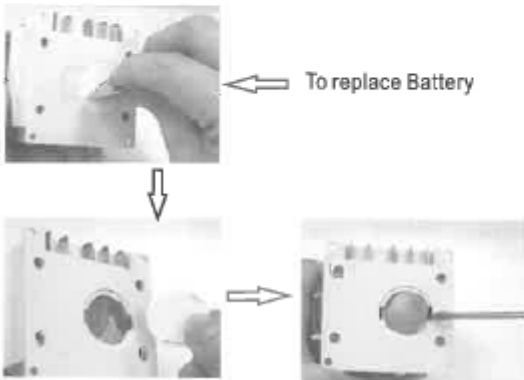this Override in executing.

When this Override is being executed, the original
programs will be stopped, and once every
10 to 120 minutes Timers shall automatically
turn its output to "ON" status.

In practicable application which is applied to
home-use, this Override function also called Anti-Burglar
Override.

Once again to press and hold **DAY** key, and then
press **MIN** key shall terminate this Override.

HOW TO REPLACE BATTERIES

For Model with Lithium CR2032

To replace Battery

PROPOSED APPLICATION

⚠ **DANGER** ⚠

Electric Shock Or Fire Hazard

READ ALL WIRE SIZES & VOLTAGE REQUIREMENT AND SAFETY
DATA AVOID PROPERTY DAMAGE AND PERSONAL INJURY

Output terminal of Timer is
produced with Flat-head
Jack-Type socket to provide
convenient electrical wiring
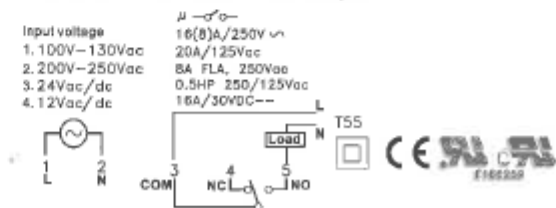upon mounting Timer on
equipments.

Subject to output formats and formats of Contact Rating,
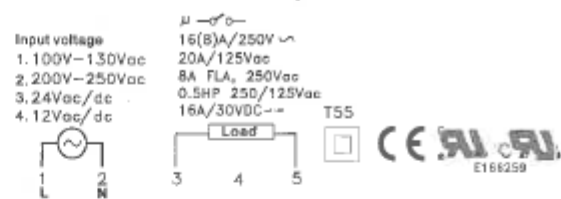there are 3 different styles in TM-619-series.

Remark:
1. For voltage and electrical RATING information,
   please refer to the markings on the back of timer.
2. See the back of timer for proper wire connections.
3. Timer may need to be connected to power source
   in order to set the program.

Follow graphic description below & Refer to section of
Descriptions to Model Code on this instruction-sheet
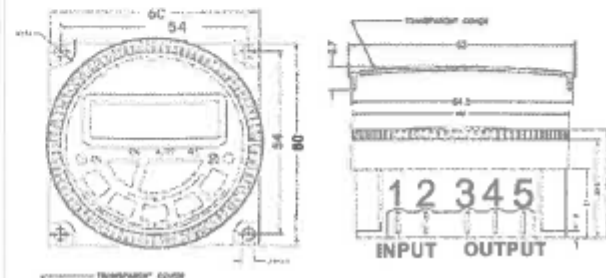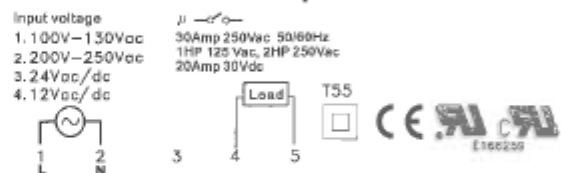upon proceeding electrical wiring.

1. TH-619 - 1~4   Volt Free output

Input voltage
1. 100V~130Vac
2. 200V~250Vac
3. 24Vac/dc
4. 12Vac/dc

16(8)A/250V
20A/125Vac
8A FLA, 250Vac
0.5HP 250/125Vac
16A/30VDC--

2. TH-619L - 1~4   Volt output

Input voltage
1. 100V~130Vac
2. 200V~250Vac
3. 24Vac/dc
4. 12Vac/dc

16(8)A/250V
20A/125Vac
8A FLA, 250Vac
0.5HP 250/125Vac
16A/30VDC--

3. TH-619H - 1~4   Volt output

Input voltage
1. 100V~130Vac
2. 200V~250Vac
3. 24Vac/dc
4. 12Vac/dc

30Amp 250Vac 50/60Hz
1HP 125 Vac, 2HP 250Vac
20Amp 30Vdc

INPUT   OUTPUT

B1-61900-003B0
VER:20091112

NOTES