FITTING THE PROGRAMMER

If surface wiring has been used, remove the knockout/insert from the bottom of the programmer to accommodate it.

Loosen the two ‘captive’ retaining screws on the bottom of the Backplate. Now fit the programmer to the Backplate, ensure the lugs on the Backplate engage with the slots on the programmer.

Swing the bottom of the programmer into position ensuring that the connection pins on the back of the unit locate into the terminal slots in the backplate.

Tighten the two ‘captive’ retaining screws to fix the unit securely.

Then switch on the mains supply.

UPON COMPLETION OF INSTALLATION PLEASE RESET THE PROGRAMMER.- DETAILED BELOW

RESETTING THE PROGRAMMER

On the CentaurPlus press SET and SELECT buttons together.

Then release the buttons and the programmer will return to preset factory settings.

The preset factory settings are illustrated on page 2 of the USER GUIDE.

The unit can now be programmed to suit the User’s requirements.

Please refer to the User’s Guide provided.

GENERAL INFORMATION

Before handing over the installation to the user, always ensure that the system responds correctly on all control programmes and that other electrically operated equipment and controls are correctly adjusted.

EXPLAIN HOW TO OPERATE THE CONTROLS AND HAND OVER THE USERS OPERATING INSTRUCTIONS TO THE USER.

SPECIFICATION C11 - C17

Contact type: Micro dry connection (Voltage Free)

Contact rating: 3(1)Amp 230-240V AC

Power supply: 230-240V AC 50Hz

Operating Temperature ranges: 0°C to 40°C

Double insulated.

Dirt protection: Normal situations.

Enclosure protection: IP50

Purpose of control: Electronic time switch

Independently mounted control for surface mounting.

Operation time limitation: Continuous

Type 1 Action

Battery Reserve: 10 months continuous operation (minimum)

Case material: Thermoplastic, flame retardant

Horstmann Controls Limited

Bristol

BS4 1UP

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Horstmann’s CentaurPlus - Single Channel Programmers Offer up to three programmed operating periods per day with Boost and Advance control.

INSTALLATION AND CONNECTION SHOULD ONLY BE CARRIED OUT BY A SUITABLY QUALIFIED PERSON AND IN ACCORDANCE WITH THE CURRENT EDITION OF THE IEE WIRING REGULATIONS.

WARNING: ISOLATE MAINS SUPPLY BEFORE COMMENCING INSTALLATION

FITTING THE BACKPLATE

Once the Backplate has been removed from the packaging please ensure the programmer is re-sealed to prevent damage from dust, debris etc.

The Backplate should be fitted with the wiring terminals located at the top and in a position which allows a total clearance of at least 50mm around the programmer.

DIRECT WALL MOUNTING

Offer the plate to the wall in the position where the programmer is to be mounted, remembering that the Backplate fits to the left hand end of the programmer. Mark the fixing positions through the slots in the Backplate (fixing centres 60.3mm), drill and plug the wall, then secure the plate in position. The slots in the Backplate will compensate for any misalignment of the fixings.

WIRING BOX MOUNTING

The Backplate may be fitted directly on to a single gang steel flush wiring box complying with BS4662, using two M3.5 screws. CentaurPlus programmers are suitable for mounting on a flat surface only, they must not be positioned on a surface mounted wall box or on unearthened metal surfaces.

ELECTRICAL CONNECTIONS

All necessary electrical connections should now be made. Flush wiring can enter from the rear through the aperture in the Backplate. Surface wiring can only enter from beneath the programmer and must be securely clamped.

The mains supply terminals are intended to be connected to the supply by means of fixed wiring.

The recommended cable sizes are 1.0mm² or 1.5mm².
NEW INSTALLATIONS

Example circuit diagrams for some typical installations are shown below. These diagrams are schematic and should be used as a guide only. Please ensure that all installations comply with the current IEE regulations. For reasons of space and clarity not every system has been included and the diagrams have been simplified, for instance some Earth connections have been omitted. Other control components shown in the diagrams i.e. valves, RoomStats etc are general representations only. However the wiring detail can be applied to the corresponding models of most manufacturers e.g. Horstmann, Honeywell, Danfoss Randall, ACL Drayton etc.

Cylinder and Room Thermostat Key:
C = Common  CALL = Call for heat or break on rise  SAT = Satisfied on rise  N = Neutral

1. Typical combination boiler installation with RoomStat

2. Fully Pumped System with RoomStat and two port spring return valve (with auxiliary switch) on Heating circuit

3. Gravity primary with pumped Heating via RoomStat and CylinderStat

4. Typical combination boiler installation

ELECTRICAL CONNECTIONS

CentaurPlus programmers are double insulated and do not require an Earth connection but an Earth connection block is provided on the Backplate for terminating any cable Earth conductors. Earth continuity must be maintained and all bare Earth conductors must be sleeved. Ensure that no conductors are left protruding outside the central space enclosed by the Backplate.

INTERNAL WIRING DIAGRAM C11 - C17

Your CentaurPlus has Voltage Free contacts.
A link L - 2 is required for mains Voltage applications.

COMMISSIONING THE PROGRAMMER

Ensure all dust and debris has been cleared away from the work area before removing the programmer from its packaging. All CentaurPlus controls are fitted with battery reserve which will maintains programmed times in the event of a mains power failure.

REAR VIEW OF CENTAURPLUS PROGRAMMER

1 - RATINGS LABEL
2 - BATTERY
3 - CONNECTOR PINS
4 - PRODUCTION DATE LABEL

BATTERY RESERVE

The Battery must be commissioned prior to fitting the control to the Backplate. This is achieved by the means of a COMMISSIONING STRIP situated on the back of the unit. Pull out the battery commissioning strip at the back of the programmer and re-insert the Battery, the reserve is now activated. When the programmer is running on battery reserve the clock display will disappear. This is to prolong the life of the battery.
BATTERY

The programmer is fitted with a non-rechargeable, long life battery, which will maintain the programmed time settings for a minimum of ten months with the supply disconnected. THIS SHOULD BE SUFFICIENT TO COVER POWER INTERRUPTIONS DURING THE LIFE OF THE UNIT. During power interruptions the display will be blank, after 3 days the current time of day will be lost. These measures are to prolong the battery life.

SERVICE AND REPAIR

This programmer is NOT user serviceable. Please do not dismantle the unit. In the unlikely event of a fault developing please refer to the RESETTING THE PROGRAMMER section of this user guide located on page 2. If this fails to resolve the problem please contact a local heating engineer or a qualified electrician.

QUESTIONS AND ANSWERS

<table>
<thead>
<tr>
<th>The unit display has become frozen</th>
<th>This could be due to local electrical interference. Using the RESET procedure may rectify the fault.</th>
</tr>
</thead>
<tbody>
<tr>
<td>The indicator neon fails to illuminate</td>
<td>Using the RESET procedure may rectify the fault. If the problem persists the programmer will need replacing.</td>
</tr>
<tr>
<td>The indicator neon will illuminate but the pump and/or boiler fails to operate</td>
<td>This may indicate a problem elsewhere in your system. E.g. A zone valve, etc. please contact a registered installer for advice.</td>
</tr>
<tr>
<td>There is no display on the programmer</td>
<td>Try the RESET procedure on page 2, if this fails to rectify the problem please have the mains supply checked</td>
</tr>
<tr>
<td>How do I know if the programmer is still under warranty</td>
<td>The CentaurPlus range comes with a 2 year guarantee from the date of manufacture. This date is located on the rear of the unit, indicated by a month over a year.</td>
</tr>
<tr>
<td>How is the programmer removed from the wall</td>
<td>WARNING: The CentaurPlus programmer must only be removed from it's backplate by either a qualified electrician or heating engineer; the programmer plugs in to a 6 pin backplate located on the rear of the unit and is secured using 2 screws located on the bottom surface of the unit. Undo these screws and pull forward and up in an arc motion</td>
</tr>
</tbody>
</table>

Horstmann Controls Limited
Bristol
BS4 1UP

Front View of Programmer

1. SET indicator
2. Time of day
3. Switch Period symbol
4. SET button
5. BOOST or adjust (-) button
6. ADVANCE or adjust (+) button
7. ENTER button
8. SELECT or COPY button
9. System ON indicator
10. SET positions
11. PROGRAMME positions
12. BOOST symbol
13. ADVANCE symbol
14. AM/PM symbol
15. Day of week indicator
16. PROGRAMME indicator

Horstmann CentaurPlus - Single Channel Programmers Offer up to three programmed operating periods per day, seven days a week, with Hot water Boost and Heating Advance control on a fully pumped system.

The following are some of the easy to operate features:-
1 Hour Boost
Flexible 7 Day Control
Advance gives instant On/off override
Up to 3 On/Off periods per 24 Hour operation.
Programme options: Auto / All day / 24 Hours / Off
RESETTING THE PROGRAMMER

Electronic equipment can in some circumstances be affected by electrical interference. If the
programmer's display becomes frozen or scrambled; or if you wish to revert back to the default time
settings please use the following procedure.

Press the SET and SELECT buttons together
then release the buttons and the programmer
will return to preset factory settings.

The simple instructions below are designed to help with the programming of the unit.

SETTING DAY AND TIME OF DAY

Press the SET button until the SET indicator is next to the
CLOCK position.

Use PLUS and MINUS buttons to adjust day

Press ENTER

Use PLUS and MINUS buttons to adjust time

Press ENTER

Press the SET button until the SET indicator is next to the
RUN position.

DEFAULT TIME SETTINGS

The default factory settings are shown, however if you
wish to change these proceed as instructed below.

<table>
<thead>
<tr>
<th>MON-FRI</th>
<th>1st ON</th>
<th>1st OFF</th>
<th>2nd ON</th>
<th>2nd OFF</th>
<th>3rd ON</th>
<th>3rd OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30AM</td>
<td>8:30AM</td>
<td>12:00AM</td>
<td>12:00AM</td>
<td>4:30PM</td>
<td>10:30PM</td>
<td></td>
</tr>
<tr>
<td>SAT/SUN</td>
<td>7:30AM</td>
<td>10:30AM</td>
<td>12:00PM</td>
<td>5:00PM</td>
<td>11:00PM</td>
<td></td>
</tr>
</tbody>
</table>

SETTING THE ON AND OFF TIMES

Press SET button until the SET indicator is next to the PROG position

Use PLUS and MINUS but- tons to adjust day

Press ENTER

Use PLUS and MINUS buttons to adjust the 1st ON time.

Press ENTER

Use the PLUS and MINUS buttons to adjust the 1st OFF time.

Press ENTER

Repeat this process for 2nd and 3rd settings

Press ENTER

Programme the remaining days.

Press SET button until the SET indicator is returned to
RUN position

INFORMATION AND ADVICE

Programming ON/OFF times

If a period is not required it can be cancelled by setting the ON and OFF settings to the same
time. Example ON 10:00am OFF 10:00am

SPECIAL FEATURES

The SET indicator must remain in the RUN position for the following instructions.

Press SELECT once. Programme goes from
AMID TO ALL DAY

Press SELECT again. Programme goes from
ALL DAY to 24 HRS

Press SELECT again. Programme goes from
24 HRS TO OFF

Press SELECT again. Programme goes from
OFF to AUTO

Unit will operate from first ON until last OFF
period

Unit will be continuously ON

Unit will be continuously OFF

Programmer will return to normal ON and OFF
times

BOOST FUNCTION - 1 hour temporary override

Press BOOST button.
Your System will be Boosted
for 1 hour

At any time during a BOOST
period press BOOST again to
return to normal program-
ning

ADVANCE FUNCTION - Brings forward next on or off operation

Press ADVANCE button once
to move to the next
ON/OFF time

To cancel the advance press the ADVANCE
button again. This will return the unit to
its normal programme

Page 2

Page 3