



Dual Channel Programmer
Part number 25039DR



A

For GREENSTAR CDi, GREENSTAR i JUNIOR and GREENSTAR Si MODELS also GREENSTAR i SYSTEM and GREENSTAR CDi SYSTEM MODEL (only when used with the optional integral diverter).

| Client | Drayton | File Name | 7342 Drayton Amends LP20 06515084001 ISSB | | | |
|-------------------|------------------|-------------|---|---------------|--------------|--------|
| Artworker | - | | | Finished Size | A5 148x210mm | motube |
| Creative Director | Mike Lane | Proof Stage | PRINT | Artwork % | 100% | maurix |
| Modification Date | 19/03/15 10:01AM | | | Bleed | 3mm | |

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DraytonHeating/DraytonControls

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE STARTING.

These instructions are applicable to the Drayton model(s) stated on the front cover of this manual only and must not be used with any other make or model.

These instructions apply in the UK only and should be followed except for any statutory obligation.

If you are in any doubt contact the Drayton technical helpline.

This accessory must be fitted by a competent person. Failure to comply could lead to prosecution.

Leave these instructions with the user or at the appliance.

Symbols

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Central Heating Domestic Hot Water

Abbreviations

| CH | = | Central Heating |
|-----|---|----------------------|
| DHW | = | Domestic Hot Water |
| DLS | = | Daylight Saving |
| BST | = | British Summer Time |
| GMT | = | Greenwich Mean Time |
| С | = | Celsius (Centigrade) |
| IP | = | Ingress Protection |
| V | = | Volt |
| m | = | metre |

mA = milliAmpere

Definitions (DLS/BST)

Summer time begins: Last Sunday in March at I:00 am GMT (Clocks are put forward by I hour)

Summer time ends: Last Sunday in October at 2:00 am BST (Clocks are put back by I hour)

Protect your environment



Proper battery recycling

Electronic devices and batteries, rechargeable or not, should not be disposed of into ordinary household waste. Instead, they must be recycled properly to protect the environment and cut down the waste of precious resources. Your local waste management authority can supply details concerning the proper disposal of batteries.

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Technical Data

| | LP20 |
|-------------------------------|------------------------------------|
| Electrical supply | 24v DC <65mA |
| Ambient operating temperature | 0°C to +50°C |
| Humidity operating range | 30 - 95% non-condensing up to 45°C |
| Class of protection | Ш |
| Degree of protection | IP20 |
| Accuracy (a) 25°C | <±lsec/day |
| Battery life | 10 years |
| Battery backup time & date | 10 years min. |
| Shortest switching period | Iminute |
| DHW & CH On/Off periods | 3 |
| DHW & CH Programs | 7 days |
| Pollution Class | 2 |
| Software Class | A |
| Ball pressure test | 90°C |

Relevant EC Directives:

2006/95/EC Low Voltage Directive 2004/108/EC Electromagnetic Compatibility Directive 1999/5/EC R&TTE Directive 2006/66/EC Battery Directive 2011/65/EU RoHS Directive

Applied Standards:

EN60730-I; EN60730-2-7

Pack Contents:

Programmer Instructions

Specifications:

- Dual channel programmer for CH & DHW mounted into the boiler fascia
- 7 day programmer
- 3 on/off periods per day
- Automatic BST settings
- Pre-programmed on/off periods
- Dedicated advance buttons
- I2 or 24 hour back-lit digital display
- Holiday function
- Pre-wired with PCB connector

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Drayton

LP20

File Name Client 7342 Drayton Amends LP20 06515084001 ISSB Drayton Artworker Finished Size A5 148x210mm matr!x Creative Director Mike Lane **PRIN7** Artwork % 100% Proof Stage 19/03/15 10:01AM Modification Date Bleed 3mm

Installation Guide



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User Guide LP20

matr!x

Drayton

100%

3mm

File Name Client Drayton 7342 Drayton Amends LP20 06515084001 ISSB A5 148x210mm Artworker Finished Size Creative Director Mike Lane **PRIN7** Artwork % Proof Stage 19/03/15 10:01AM Modification Date Bleed

User Guide

LP20 Programmer

If the engineer has set your program and timings – you do not need to do anything else. Just keep this guide in a safe place for future reference.

Introduction

The programmer will automatically switch your central heating and hot water on and off at times that suit you.

The green light on the front of the programmer shows when each one is on. LP20RF has a 7-day program allowing for different timings on each day of the week, with central heating and hot water working independently for up to 3 heating periods each day.

If the engineer hasn't set your timings for you, your programmer will work with a standard program that has been set at the factory. If this doesn't suit you, it's very easy to change it.



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The Standard Program



NOTE:

The ON/OFF periods pre-programmed for Central Heating and Hot Water pre-heat are shown in the table below. These factory installed settings can be used without any further programming of the receiver. The time and date are pre-programmed and should not require adjustment.

If you need to restore the factory pre-set program times then:

Press the + and - buttons together, for three seconds or longer, to restore the default program times to those shown in the table opposite.

NOTE:

Two ON/OFF periods can be used instead of three, by setting the second ON/OFF periods to 12:00 as shown in the default program table. One ON/OFF period can be achieved by setting the second and third ON/OFF periods to the same times.

See **Changing the Program** on the next page, if changes are required to the clock time or pre-programmed settings.

7342 Drayton Amends LP20 06515084001 ISSB

Finished Size

Artwork %

Bleed

| Switching | Weekdays | | Weekends | |
|---|----------|---------|----------|---------|
| Switching | НW | СН | нw | СН |
| Ist ON - start of first timed period | 6.30am | 6.30am | 7.00am | 7.00am |
| Ist OFF - end of first timed period | 8.30am | 8.30am | 9.00am | 9.00am |
| 2nd ON - start of second timed period | I2.00pm | I2.00pm | l2.00pm | l2.00pm |
| 2nd OFF - end of second timed period | I2.00pm | I2.00pm | l2.00pm | l2.00pm |
| 3rd ON - start of third timed period | 4.30pm | 4.30pm | 4.00pm | 4.00pm |
| 3rd OFF - final swith-off of the day | 10.30pm | 10.30pm | ll.00pm | ll.00pm |

File Name

Proof Stage

PRIN

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matr!>

Client

Artworker

Creative Director

Modification Date

Drayton

Mike Lane

19/03/15 10:01AM



A5 148x210mm

100%

3mm







Press + or - to change the OFF time.

8 Press set? to set the OFF time and select the next ON time.

Repeat operations 5 to 8 to set the second and third CH ON/OFF times.

NOTE:

After pressing **set?** for the third CH OFF time the display shows SET MON ...see next page.

Setting Hot Water (HW) MON - FRI



Press OK to select the first ON time.



Repeat operations 5 to 8 to set the first, second and third HW ON/OFF times.



NOTE:

After pressing **set?** for the third HW OFF time the display shows SET MON ... see next page.

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LP20 Programmer

Setting individual weekdays:

NOTE:

If you do not require individual weekday times, then press **set?** until SET SAT-SUN are displayed and continue on the next page.

If you do not wish to change the setting for the day displayed, then press **set?** until the first day you want to change is displayed.

Setting Central Heating (CH) individual weekdays:



Press OK to select weekday.





 ${\sf Press\,OK}\, to\, {\sf select\,CH}.$



NOTE:

Speed up the display by holding down the + or - buttons.



Press + or - to change the ON time.





Press **set?** to set the ON time and select the OFF time.





Press + or - to change the OFF time.

Press **set?** to set the OFF time and select the next ON time.

Repeat operations 3 to 6 to set the second and third ON/OFF times.

NOTE:

After pressing **set?** for the third CH OFF time, SET and HW for that weekday are displayed.

Setting Hot Water (HW) individual weekdays:





Repeat operations 3 to 6 to set the first, second and third HW ON/OFF times.



NOTE:

After pressing **set?** for the third HW OFF time, SET and the next weekday are displayed.... after completing the steps above for FRI the display shows SET SAT-SUN. see next page....



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Setting Central Heating (CH) SAT - SUN:

Press OK to select weekend.



Press OK to select CH.



NOTE:

Speed up the display by holding down the + or - buttons.



Press + or - to change the ON time.





6

Press **set?** to set the ON time and select the OFF time.



Press + or - to change the OFF time.

Press **set?** to set the OFF time and select the next ON time.

Repeat operations 3 to 6 to set the second and third ON/OFF times.

NOTE:

After pressing **set?** for the third CH OFF time, SET and HW for the weekend are displayed.

Setting Hot Water (HW) SAT - SUN:

Press OK to select the first ON time.



Repeat operations 3 to 6 to set the first, second and third HW ON/OFF times.



NOTE:

After pressing **set?** for the third HW OFF time, SET and SAT are displayed....see next page.

NOTE:

If you do not require individual weekend day times, then press **set?** until the normal display is shown.

Setting individual weekend days:

NOTE:

If you do not require individual weekend day times, then press **set?** until the normal display is shown.

If you do not wish to change the settings for SAT, then press set? to move to SUN.



Setting Central Heating (CH) individual weekend days:



Press OK to select the day displayed. Press OK to select CH.





Press + or - to change the ON time.





Press set? to set the ON time and select the OFF time.





Press + or - to change the OFF time.

Press set? to set the OFF time and select the next ON time.

Repeat operations 3 to 6 to set the second and third ON/OFF times.

NOTE:

After pressing set? for the third CH OFF time, SET and HW for that day are displayed.

Setting Hot Water (HW) individual weekend days:



Press OK to select the first ON time.



Repeat operations 3 to 6 to set the first, second and third HW ON/OFF times. Pressing set? until the normal display is shown.



NOTE:

Speed up the display by holding down the + or buttons.





Setting holidays:



Press the **set?** button until SET and HDAY? are displayed.





Press OK and the display shows 00.





Press + or - to set the number of days you require the system to be off.



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Press set? then HDAY is shown in the display and no demand for heating will be made from the programmer. The program will return to normal after the set number of days. To cancel the holiday setting and return to normal operation, press any button.



NOTE:

The programmer counts each pass through midnight as a day. e.g. if you do not want heating from Saturday morning until Tuesday morning, set for three days. Setting the clock and time



2

Press the **set?** button until SET and CLOCK? are shown in the display.

SEL

Press OK to display 24hr and ON.

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|-----|------|
| | |
| | |



Decide between 24 hour or I2 hour display and press set? to select, now the hours will flash.



4

Press + or - to set the correct hour.



NOTE:

Speed up the display by holding down the + or - buttons.



When the correct hour has been selected, press set? to select, now the minutes will flash.





Press + or - to set the correct minutes.

When the correct minutes have been set, press **set**? to select that setting.

- Now SET and DATE will be displayed.
- If the day and date needs resetting, refer to the next page for SETTING THE DATE.
- If the day and date are correct, press set? to return to the normal display.



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Press the **set?** button until SET and DATE? are displayed.





Press the OK button once, the year flashes on the display.



3

Press + or - to set the correct year, e.g. 04.



4

When the correct year has been chosen, press **set?** to select, now the month will flash.





 $Press + or - to select the correct month, e.g.\,08.$

When the correct month has been chosen, press **set?** to select, now the day will flash.



Press + or - to select the correct day, e.g. 16.

When the correct day has been chosen, press set? to select, now dLS will be displayed and ON will flash.



| - | |
|---|--|
| 0 | |
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Press + or - to switch between ON or OFF. If you choose ON then the clock will automatically adjust the time for Daylight saving. If you choose OFF then the time will not change to take account of the Daylight Saving time change twice a year.



Press **set?** twice to return to the normal display.



NOTE: dLS = Day Light Savings time

Maintenance

The LP20 requires no maintenance.

The outer casing can be wiped clean using a dry cloth. **DONOT** use polish or detergents.

These units can not be serviced.

Should the existing units fail to function correctly, check that the:

 LP20 Programmer times and program settings are correct.

LP20 Programmer part number 25039DR

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Drayton

Support

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