



BRIGHTWELL®

BRIGHTFLOW® CHEMICAL DISPENSING SYSTEMS

Tracer Option 1-4

LIQUID LAUNDRY DISPENSING & MANAGEMENT



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PREFACE

The Tracer laundry dispensing system has been designed to provide accurate and reliable liquid dispensing for both the OPL and commercial laundry industry.

There are 8 'Options' to choose from, with optional packs that can provide hard copy data logging, and multi formula programming and temperature pump initiation, together with the choice of two sizes of peristaltic pumps, plus a selected number of tube materials.

Tracer has been designed and developed from market research together with the comprehensive experience that Brightwell Dispensers and their technical sales engineers have within the Laundry Industry.

Full state of the art digital electronics provide unrivalled flexibility both in the installation and operational performance of the system. With full EMC approval the system offers unique software enhancements designed to facilitate an easy installation on virtually any make of laundry machine.

This instruction book covers all aspects of the Tracer TL range. Options 1 - 4.

For Tracer HTL (Highflow) range, refer to HTL instruction book. Options 5– 8.

Features of the Tracer Laundry Dispenser

Tracer Features

TRACER FEATURES

The following briefly explains some of the numerous features available:

Feature 1. Personal Access Codes (standard)

Each dispenser has a personal 4 number access code or PIN that allows a high degree of security from unauthorised adjustment. Up to 5 coded numbers programmed in for future changes if required

Feature 2. Signal acceptance delay (standard)

The signal acceptance delay adjustable from 1 to 59 seconds allows you to filter out any unwanted electrical signals, which are often found on mechanical timer laundry machines.

Feature 3. Dispenser Reset Delay (standard)

Allows a variable time at the end of the wash cycle for the dispenser to auto reset. This eliminates the multiple short signal problem found on computer controlled laundry machines at the end of their cycle.

Feature 4. Pump delay variable timer (standard)

When the signal from the laundry machine is received a variable time delay from 0 to 10 minutes may be entered. When this time has expired the pump will operate for the entered time.

Feature 5. Speed Control of pumps (standard)

Complete speed control of the peristaltic pump (5mm pumps only). An essential feature for small pipe delivery of viscous products. Regulates flow and increases pumphead lifespan.

Feature 6. Pulse Counting feature (standard)

An extremely useful feature which allows the installer to select just one signal from a multi signal source, such as a solenoid which operates more than once during a wash program. Often referred to as a non-retriggerable feature, our pulse counter also allows for selection of any one of those multi or repeating signals, once only.

Feature 7. Precision pump run time (standard)

With full Digital control, the Tracer systems provide unrivalled pump dispensing accuracy from 1 second up to 59 minutes.

Feature 8. Double pump run option (standard)

On the four pump version, the options of running two of the pumps twice, allows the injection of the same products into the pre-wash as well as the main wash.

Feature 9. Screen Skip Facility (standard)

A unique feature that allows you to jump straight to the screen you wish to change, without the need to go through the whole program.

Feature 10. Flush Solenoid terminal (standard)

This allows for the operation of a 24V DC flush solenoid when using any form of manifold. Initiating 1 second before selected chemical operation, it can be adjusted to continue to run for a set period after the chemical pump has stopped.

Feature 11. Calibration of pumps and readout (standard)

User friendly readout from the screen will tell you automatically how much product that particular pump has dispensed in Litres. Simply instruct the dispenser at the time of installation how much of your product it pumps over a specified time period and Tracer will do the rest.

Feature 12. Twin signal identifier feature (standard)

This new feature allows the dispenser to discriminate between two incoming signals for the same pump. Eliminating the need to fit a relay, or connecting the two laundry machine solenoids, and also eliminates the possibility of dispensing two charges of product.

Feature 13. Chemical Enable on two products. Option 1

Push button selection for the operator, on up to two products via users own buttons, or the Brightflow optional illuminated push button enclosure. Low voltage ensures safety for operator.

Feature 14. Formula Recorder (standard)

Records the number of each individual formula used and how many operations of that formula.

Feature 15. External Wash Cycle Signal (standard)

Allows the use of any proprietary counter to record externally each laundry machines total wash cycle.

Feature 16. Safety Enclosures (standard)

All the 'Tracer' range of laundry dispensers are housed within strong Industrial modular enclosures. Manufactured from strong non-conductive ABS they also offer safety as all 220/240V terminals are well out of reach behind a custom protective cover.

Feature 17. Removable Links (standard)

All Powerboards will have removable circuit links, which will allow simple removal and replacement when neutral switching is encountered.

Feature 18. Colour options (custom)

The standard colour is Alaskan White, but on order quantities, other enclosure colours are available such as Caribbean Blue, Dove Grey, Fire Red, and British racing Green.

Company Logo facilities are also available for a one off cost, so eliminating the need to purchase large quantities of custom labels.

Feature 19. Formula Select Module PACK 1 (optional)

Allows the user to provide an operator interface to allow selection of up to 10 programs. Allows for varying quantities of product to be introduced to cope with different soiling conditions. Also allows the user to eliminate products for certain fabric wash programs. see *Management Pack 1 information*

Feature 20. Remote hand held programmer. PACK 2 (optional)

A full function, remote hand held controller, which can be used to upload and download information to and from Tracer dispensers. see *Management Pack 2 information*

Feature 21. Temperature Monitoring PACK 3 (optional)

Provides the ability to monitor wash temperature, and provide signal operation. see *Management Pack 3 information*

Feature 22. Hard Copy printouts PACK 4 (optional)

Full management reports fully timed and dated, detailing important information see *Management Pack 3 information*

Installation Guide

Section 1

INSTALLATION ENGINEER

Before installing the Tracer Laundry Dispenser, please read the attached guide thoroughly.

1. Survey the area to determine the most suitable position for the dispenser, considering the pumping distance and chemical drum accessibility. This must not be behind laundry machines unless the chemical drums can be located underneath the dispensers.
2. It is recommended that the suction tubes from the chemical containers are no longer than 2 metres suction and the delivery tubing length is kept as short as possible.
3. Ensure the correct size of tubing is employed. The standard size is 8mm ID x 11mm OD, except in the case of very viscous products, when the size will need to be increased to 10mm ID x 16mm OD (braided) PVC tubing.
4. Where very viscous products are in use, reduce pump speed (60-85%) and increase delivery time accordingly, to suit flow of product.
5. When running tubing within trunking / ducting, take care that delivery tubing is not subject to sharp angles that will allow the tube to eventually kink. Avoid trailing tubes over hot pipes or motors.
6. The installation of this dispenser should only be carried out by trained personnel, who must ensure the installation complies with all local wiring and safety regulations. The Powerboard of this dispenser offers versatile wiring options.
7. When wiring to the unit, it is recommended that the cables be run within a suitable conduit. The conduit must be secured at evenly spaced intervals with wall clips.
8. All signals for the dispenser should come from the Laundry machine control circuit, and, if the Laundry machine has a transformed isolated control circuit, then care should be taken to ensure that the control circuit isolation is maintained. If in doubt consult the Laundry machine Supplier/Manufacturer.

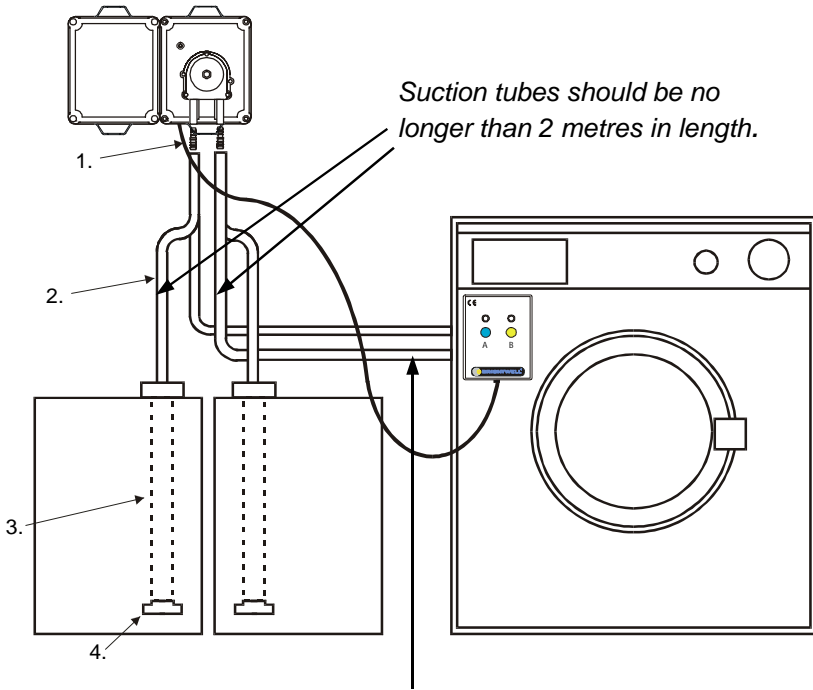
9. Please note that the relevant pump to the RESET terminal should be used for softener product, as this is usually the last signal from the machine.
10. The standard powerboard will only accept trigger signals of 90V to 240V. If 24V to 240V trigger signals are required then RP3 & RP4 will need to be removed from the powerboard. See Page 15.

INSTALLATION GUIDE

1. Locate a suitable position for the dispenser above the chemical containers and secure the dispenser to a sound vertical surface via the externally moulded fixing points. Push fit the custom screw covers to present a neat finish.
2. Undo the four captive screws on the control enclosure, the hinged lid will now open. The Microboard is located on the internal side of the lid. The powerboard wiring terminals are inside the enclosure. Remove the clear protective mains terminal cover ready for wiring.
3. Connect a mains source 220 or 240V (*110V and 24V optional*) via the removable LNE. plug located at the bottom L.H.S. of the powerboard. This should be an isolated mains source that will only be live when the laundry machine is switched on.
4. The powerboard has two terminal rails for trigger signals. The bottom rail 'X' is for the switch wires and the top rail 'Y' is the common rail.
5. If the chemical enable (*Chem. En*) option(s) are being utilised then a pre-wired chemical enable module is available (*Part No. 6650*). This must be wired to the appropriate terminals on the powerboard. The 'Chemical Enable' option is only required for Tracer units without the 'Formula Select Module'.
6. Fit tube connectors to pump tubes, connect delivery and suction tubing then fit clips or cable ties to fasten all joints. When complete fit the clear splashguards.
7. When wiring is complete, proceed to program the Microboard.

INSTALLATION DIAGRAM

The unit must not be positioned behind the laundry machines unless the chemical drums can be located underneath the dispenser.



If the tubes are to be run within trunking, only braided tubing should be used.

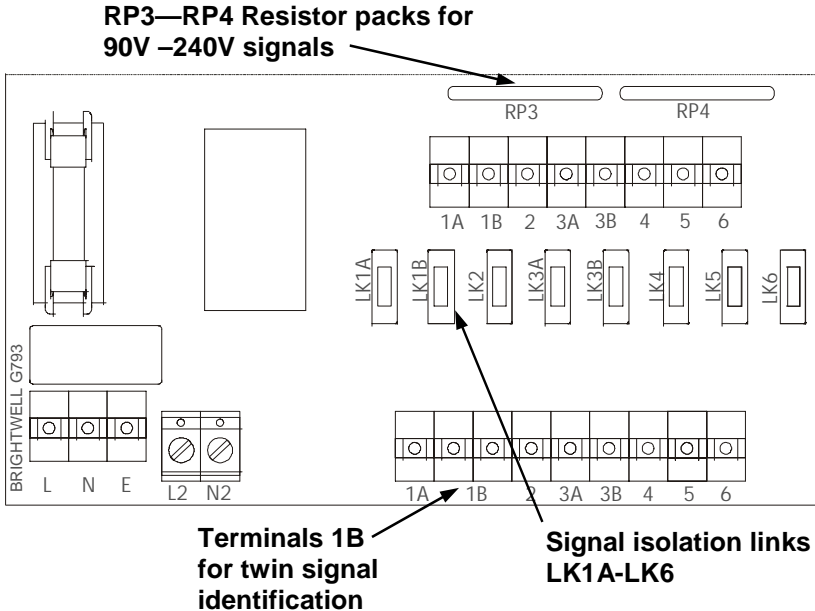
See spares list on page 48 for part numbers.

Wiring Information

Section 2

WIRING THE TRACER DISPENSER

POWERBOARD TERMINAL DIAGRAM



SIGNAL ISOLATION

Each signal can be isolated from the common **Y Terminal rail** with removable links numbered LK1A-LK6. These are insulated links and situated between the **X** and **Y** rails.

Although the links are insulated, they MUST NOT be removed while the power is on.

The Tracer Laundry Dispensers benefit in having up to three dual product pumphead, which will dispense up to six products, two of which can be run twice (rear pumps).

WIRING QUICK GUIDE

Use the following Installation steps carefully and refer to the Tracer Powerboard Diagram on page 18.

STEP 1. If using the Laundry machine solenoids, check if they have a common. i.e. (One linked cable to each of the solenoids).

If they have, take this common to Powerboard upper rail Y.

STEP 2. Take the other solenoid cables (switch wires) to the respective lower terminals on lower rail X. For information as to which terminal operates which pump, refer to the table on page 17.

STEP 3. If the signal solenoids are NOT common, remove the respective links on the powerboard, and then connect to each of the wires from the signal solenoid. Bring the two wires up to the dispenser and insert one in the respective terminal on the Powerboard upper rail Y and the other in the respective terminal on the lower rail X.

Ensure all solenoid polarities are kept on the same rail.

Example:-

If the solenoid for signal 1A does NOT have a common link to the other signal sources, or you are not sure, remove link LK1 (See Powerboard terminal diagram, Page 15) to isolate it from the other signals. Then take one wire from each side of the coil of that solenoid to terminals 1A on the X Rail and 1A on the Y Rail.

Note: The standard powerboard will only accept trigger signals of 90V to 240V. If 24V to 240V signals are required then RP3 & RP4 will need to be removed from the powerboard (see diagram on Page 15).

Ensure all local wiring regulations are maintained.

RESET AND TERMINAL INFORMATION

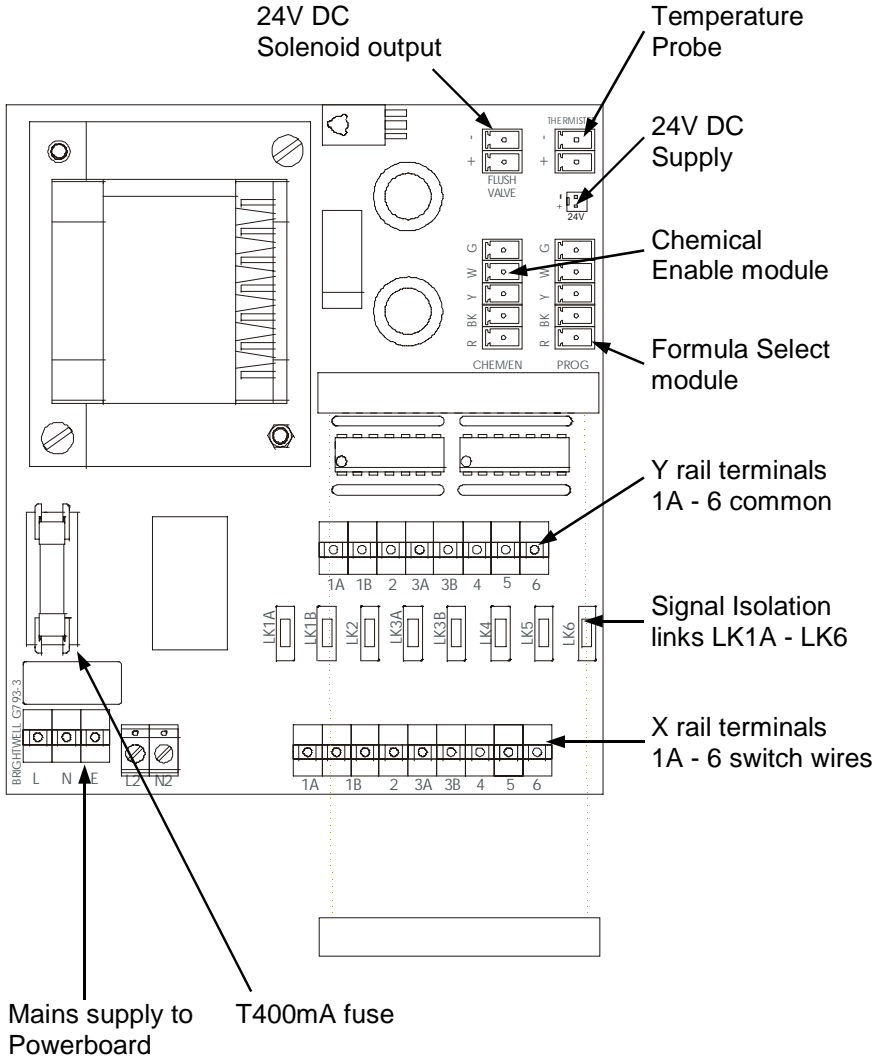
The table below indicates which Powerboard terminal will cause the unit to reset when a signal is accepted.

Unit Type	Powerboard reset terminal
TL2 - Two pump	2
TL4 - Three pump	4
TL4 - Four pump	4
TL6 - Five pump	6
TL6 - Six pump	6

Powerboard Terminal	Chemical Run	Pump
Terminal 1A	First charge of chemical	pump one
Terminal 1B - HOT	Second charge chemical	pump one
Terminal 1B - COLD	Second charge chemical	pump one
Terminal 2	Only charge chemical	pump two
Terminal 3A	First charge of chemical	pump three
Terminal 3B	Second charge of chemical	pump three
Terminal 4	Only charge of chemical	pump four
Terminal 5	Only charge of chemical	pump five
Terminal 6	Only charge of chemical	pump six

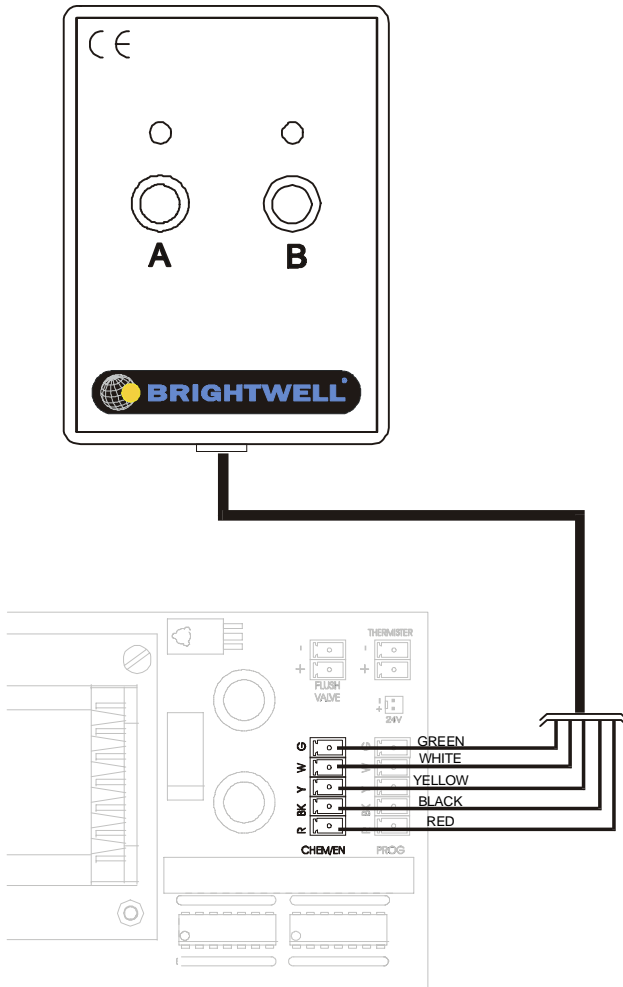
Note: Certain Laundry machines flush either hot or cold depending on program selection, Because of this, one or two solenoids can operate at the same stage of a wash cycle. Tracer units have two terminals that are labelled 1B on the Powerboard. These enable the dispenser to discriminate between the two incoming signals for the same pump. Eliminating the need to fit a relay and the possibility of dispensing two charges of product.

TRACER POWERBOARD DIAGRAM



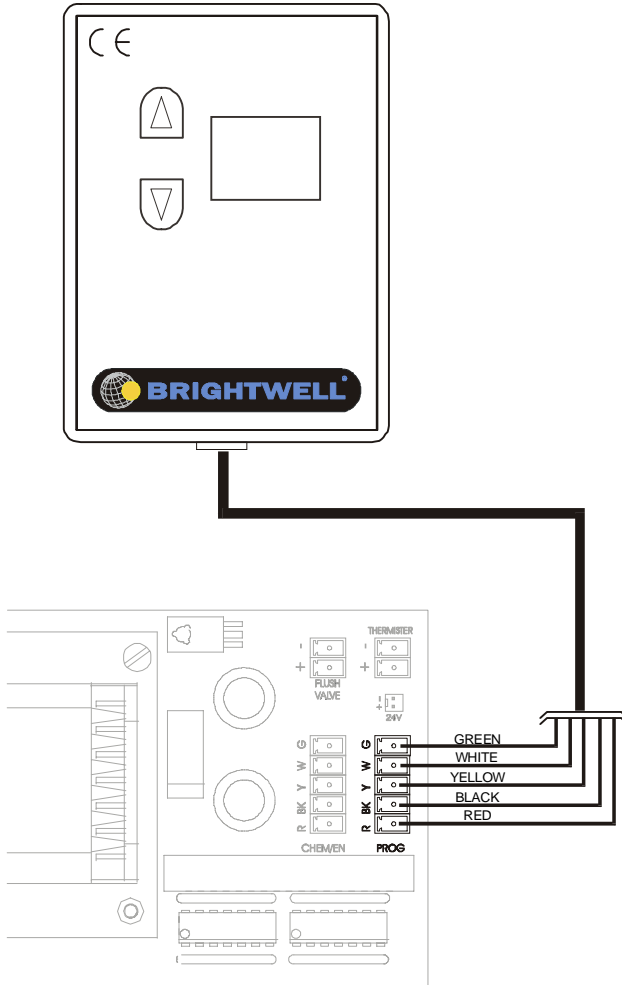
Wiring for Tracer options

Chemical Enable Module Part No. 6650

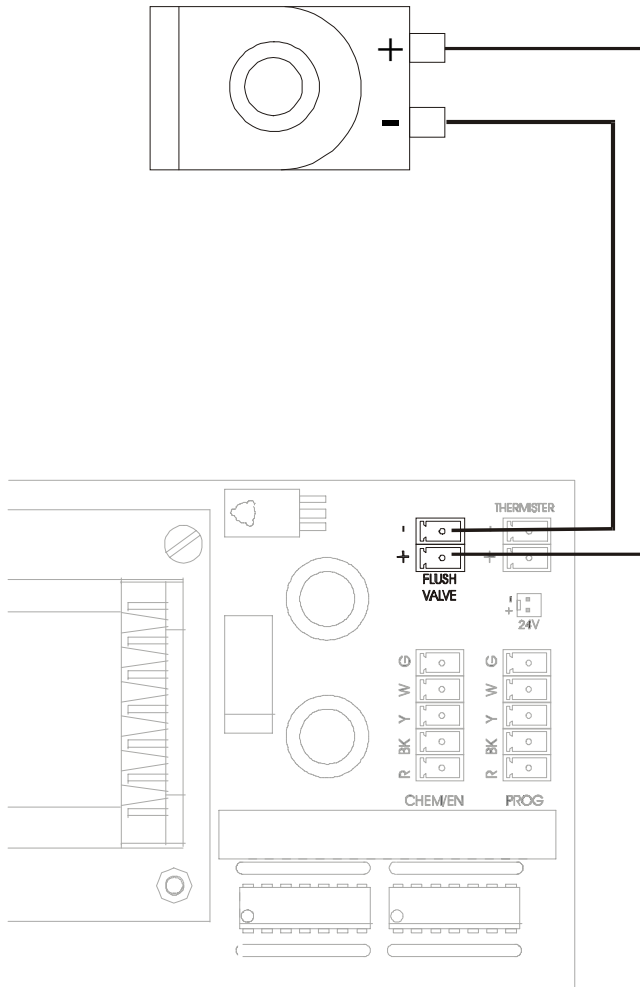


Formula Select Module Part No. 6610

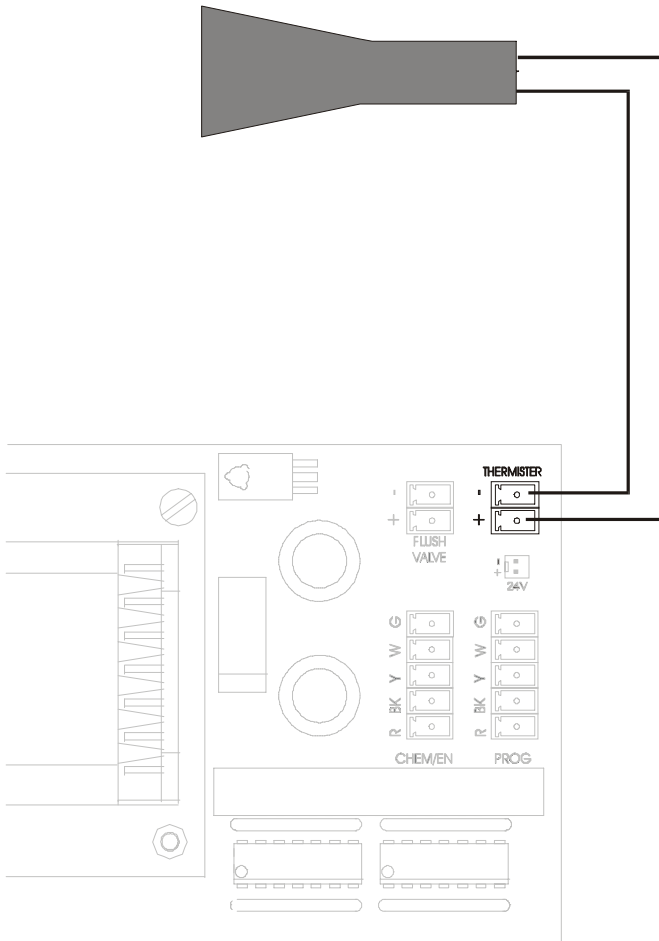
(Not available for Options 1 and 5)



24V DC Flush Solenoid output



Temperature Probe Part No. 6630

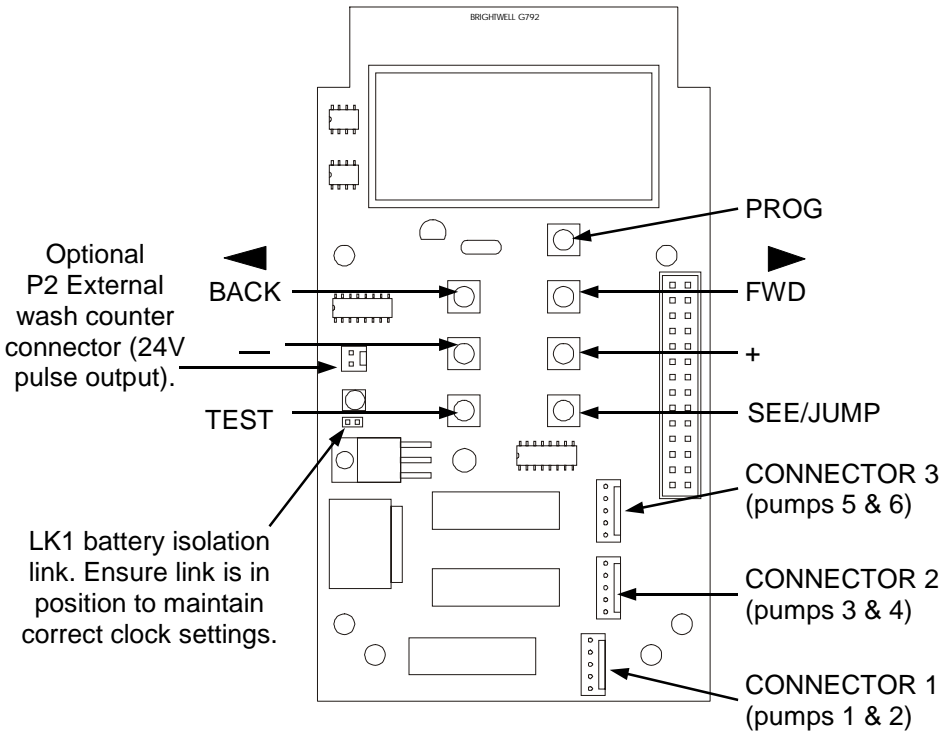


Programming Information

Section 3

TRACER PROGRAMMING INSTRUCTIONS

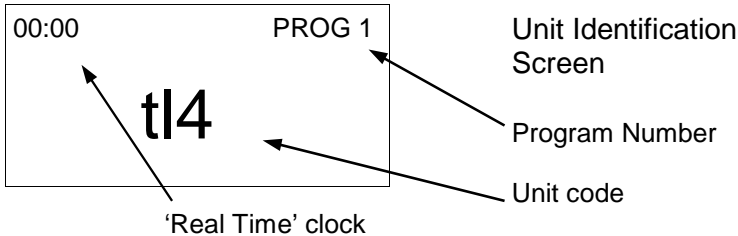
Tracer Microboard Diagram



POWER UP ('Unit Identification Screen')

On power up, the screen will display the unit code, with the Program Number 1 displayed on the top RH corner.

The time is displayed on the top LH corner of the screen with a clock symbol shown below it.



SETTING THE CLOCK

(not available on Option 1 Tracers)

If the clock has not been set, the time will flash '00:00'. To set the time, press the two centre buttons '-' and '+' simultaneously. The hours will then start to flash. This can now be adjusted to the correct hour using the '-' and '+' buttons.

When the display shows the correct hour, press the 'FWD' button, and the minutes will start to flash. Set the minutes in the same way as the hours.

When the minutes have been entered and accepted, the Year will flash, followed by the month, and finally the day. These should all be adjusted, as with the time, pressing the 'FWD' button after each setting is correct.

If a mistake is made, it is possible to press the 'BACK' button to go back and correct the error.

Note: The backup battery on the Tracer microboard is trickle charged when the power is on. It should be allowed to charge fully in order to maintain the correct time and date settings. The 'Real Time' clock and date settings will appear on the printout.

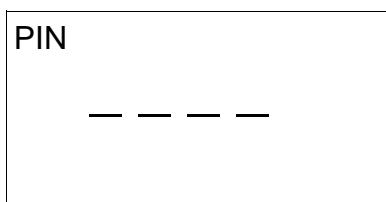
(See Tracer Options).

All other settings are unaffected by the status of the battery.

JUMP BUTTON

If this button is pressed at any time during the 'SEE' or 'SET' mode, the program will jump to the first screen of the next sequence of chemical screens.

ENTERING THE SET MODE



To change the setting for the various chemical runs, the Set Mode must first be entered.

First the 'FWD' button must be pressed, and the screen will prompt for the PIN number to be entered.

Change each number by using the '-' and '+' buttons, and press the 'FWD' button when correct.

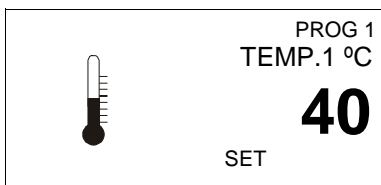
If at any time the wrong number is entered, press the 'BACK' button and the last number that was entered will flash and can be changed.

The screens between the dotted lines are only relevant if a temperature probe is fitted.

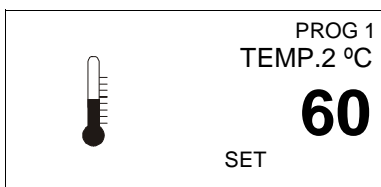
TEMPERATURE

These two temperatures can be set between 10°C and 90°C. This enables any of the pumps to be triggered at either temperature 1 or temperature 2 instead of an input signal.

Note: The probe will only operate on a temperature increase i.e. if temperature 2 is lower than temperature 1, then temperature 2 would trigger its corresponding pump first.



TEMPERATURE 1



TEMPERATURE 2

To set the desired temperature, use the '-' and '+' buttons to change the displayed setting.

It is essential that only a Brightwell supplied temperature probe (part No. 6630) is used.

It is possible to display the temperature at the probe when the unit is displaying the 'Unit Identification Screen', i.e. TL2, TL4 or TL6.

Press the 'TEST' button at the 'Unit Identification Screen' to show the temperature at the probe.

Cont.....

Note: If conditioner is to be dispensed on the last pump via a temperature probe, then the conditioner should be dispensed into the hopper during the wash cycle. To activate this, set both temperatures to the wash cycle temperature, then prolong the reset time (see P.37) to enable the laundry machine to reach its final extract stage, before the unit resets.

Press the 'FWD' button to move to the next screen.

24V D.C. FLUSH SOLENOID OUTPUT

(Refer to Section 2 - Wiring, page 21)

A 24V D.C. Output will automatically become active when any trigger signal has been accepted. This output will be active for 1 second before the pump runs and will remain active for the duration of the chemical run time. The time the solenoid remains open after the pump has run can be set in the following screen.

PROG 1	
00:00 MIN	
	SEC
SET	FLUSH

FLUSH SOLENOID

Use the '-' and '+' buttons to change the settings. Press the 'FWD' button when correct. If the flush solenoid output is not required, leave set to '00 : 00'.

Note: Flush solenoid settings are global.

Press the 'FWD' button to move to the next screen.

SIGNAL ACCEPTANCE SCREEN

This is the length of time a signal must be present before it is accepted. It is a useful facility which can help filter out spiking and prevent unwanted charges of chemical. The signal acceptance delay can be adjusted from 1 to 59 seconds by using the '-' and '+' buttons. In normal circumstances 1 second is sufficient.



SIGNAL ACCEPTANCE

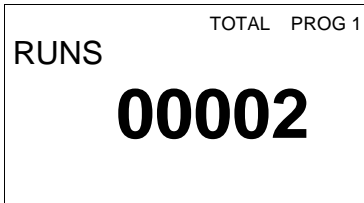
Never set this time longer than the signal period, as this will prevent the pumps from operating.

Note: Signal Acceptance is global throughout formulas on all units fitted with the Formula Select Module.

Press the 'FWD' button to move to the next screen.

FORMULA COUNTER

The Formula counter will count the number of times each formula has completed its cycle. If more than one formula has been stored (see *Copying Formula information on Page 40*) this information can be used to keep track of which formulas are most frequently used, or for costing purposes.



FORMULA COUNTER

Press the 'FWD' button to move to the next screen.

TOTAL RUN TIME / CYCLES / FLOW QUANTITY

The following screen is an information screen only. Either the total run time of the pump or the number of cycles that have been made can be selected by using the '-' and '+' buttons.

By pressing the 'BACK' and 'FWD' buttons simultaneously, the flow quantity can be selected. Pressing the '-' or '+' buttons will now change between Cycles and Flow Quantity.

To clear the totals on the selected screen, press the '-' and '+' buttons simultaneously.

CHEMICAL	TOTAL RUN TIME	PROG 1
1A	00:00	MIN
		SEC
SET		

TOTAL RUN TIME

CHEMICAL	PROG 1
1A	ml
	014
FLOW QUANTITY	SET

FLOW QUANTITY

CHEMICAL	PROG 1
1A	
	00002
CYCLES	SET

CYCLES

Press the 'FWD' button to move to the next screen.

FLOWRATE

This screen will only appear if the flow quantity (*shown previously*) screen is selected. The flowrate is displayed in millilitres per minute.

The flowrate can be entered in this screen to enable the unit to display the flow quantity dispensed by this pump.

CHEMICAL	PROG 1
1A	ml
00170	MIN
FLOW RATE	SET

FLOWRATE

If it is required to change this screen, press the '-' or '+' button, and the first digit will begin to flash.

If the flowrate is known, enter this value by using the '-' and '+' buttons to adjust the flashing digit. Press the 'FWD' button when correct. The next digit will then begin to flash.

Proceed as before until the flowrate is correct. Pressing the 'FWD' button on the last digit will accept this value and move to the next screen.

Pressing the 'BACK' button before the last digit will allow the amendment of the previous digit.

To determine the flowrate if it is not already known press the 'FWD' button to go to the next screen (See **SPEED** setting screen for automatic 1 minute run time).

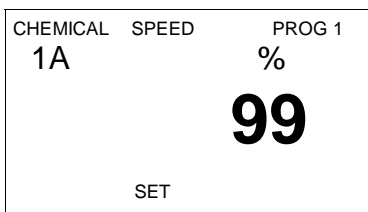
Note: Flowrate settings are global.

Press the 'FWD' button to move to the next screen.

SPEED (PERCENTAGE)

The speed on each chemical can be adjusted on the following screen. The average speed setting for viscous products would be between 60-85%.

DO NOT SET THE SPEED BELOW 25%.



SPEED

Use the '-' and '+' buttons to change the percentage speed.

Ensure the correct speed is set before proceeding.

Press the 'TEST' button and the pump will run for exactly 1 minute. It is possible to measure the quantity of chemical dispensed at the point of injection ('**FLOWRATE**') during the automatic 1 minute pump run. Pressing the 'TEST' button again before 1 minute has elapsed will stop the pump at that point.

If it is required for the Tracer to calculate the flow quantity, the '**FLOWRATE**' must now be entered in the flowrate screen. To do this, press the 'BACK' button to return to the previous screen i.e. if the flowrate is 170ml/min, enter this value (*See previous screen*).

If the flow quantity is not required, continue to program the next screen

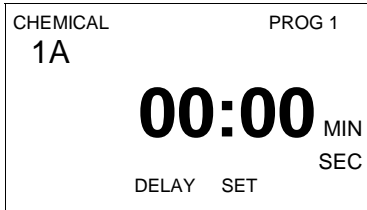
Speed is usually set according to the viscosity of the liquid being dispensed. For very viscous products, the speed should be reduced for a more consistent flow and help prolong pumphead life.

Note: Speed settings are global.

Press the 'FWD' button to move to the next screen.

DELAY

A delay can be set to prevent chemical being dispensed on to dry textiles. This delay will take effect when a signal has been accepted and be adjusted from 0 - 99 minutes.

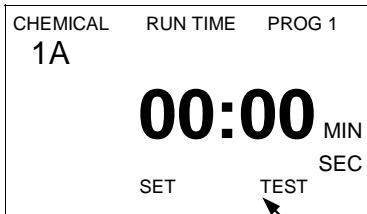


DELAY

Use the '-' and '+' buttons to change the delay.

Press the 'FWD' button to move to the next screen.

RUN TIME



RUNTIME

'TEST' will flash if the 'TEST' button is pressed while the pump is running

Use the '-' and '+' buttons to change the run time.

It is possible to set the run time by calculating the required value manually or by measuring the amount of chemical required.

ENTERING THE RUN TIME MANUALLY

Calculate the run time required by using the 'FLOWRATE'. Enter this figure using the '-' and '+' buttons. I.e. If the flowrate is 170ml/min and 340ml is required, then set the run time to two minutes.

ENTERING THE RUN TIME BY QUANTITY DISPENSED

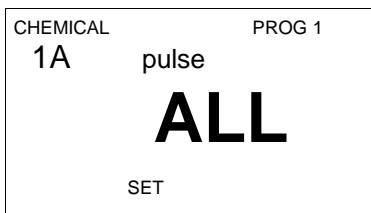
Adjust the run time to a value greater than is required, e.g. 10 minutes. Place a suitable measuring receptacle at the point of injection and press the 'TEST' button. 'TEST' will appear on the display. The pump will run for the time set.

When the correct amount of chemical has been dispensed, PRESS and HOLD the 'TEST' button again. 'TEST' on the display will flash for 2 seconds and the pump will stop. The required run time will now be set. It is still possible to adjust this value by using the '-' and '+' buttons.

If 'TEST' is pressed but not held while the pump is running, the pump will stop at that point but the value will not be stored.

Press the 'FWD' button to move to the next screen.

SIGNAL/PULSE COUNTING FACILITY



PULSE COUNTER

Use the '-' and '+' buttons to change the pulse setting.

If a non-retriggerable signal is required, from a repeated signal source i.e. when a solenoid operates more than once, then adjust to '01'. The pump will accept the first signal only.

Any other signal will be ignored until the unit is de-powered or reset. If set to '02', the pump will trigger on the second signal only. This is adjustable from 1 to 99.

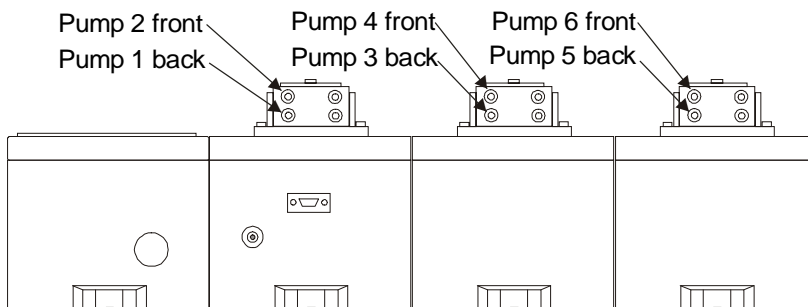
If 'All' is selected, the dispenser will accept and operate on all trigger signals to the respective powerboard terminals. It is important to ensure that your trigger source operates only once throughout the machine's cycle when the pulse counter is set to 'ALL'.

For units fitted with a Brightwell temperature probe (*Part No. 6630*), two other triggering options become available, and it is possible to set the screen to 'Temperature 1' or 'Temperature 2'. If either 'Temperature 1' or 'Temperature 2' is selected, the pump will be triggered when the drum reaches the temperature set previously.

FOR UNIT RESET AND TERMINAL INFORMATION SEE 'WIRING THE TRACER DISPENSER' (on page 17).

Proceed to program the remaining screens in exactly the same manner, these are indicated on the LCD and a reference table can be found on Page 17.

TL6 PUMP DIAGRAM

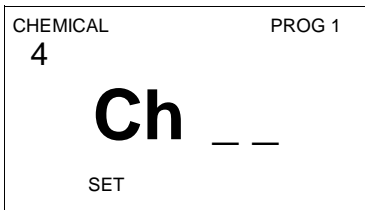


The information between the dotted lines is for use with units NOT FITTED with the 'Formula Select Module'.

CHEMICAL ENABLE FACILITY (not required on Option 3 and above)

Setting the chemical screens is the same for each chemical dose with the exception of one or two Chemicals, depending on which Tracer unit type (See table below). These have an additional screen that is used in conjunction with the push-button or chemical enable feature (See Section 4 - Tracer Options).

Unit Type	Chemical enable facility	Pump
TL2 - Two pump	Chemical 2	2
TL4 - Four pump	Chemical 2 & 4	2 & 4
TL6 - Six pump	Chemical 4 & 6	4 & 6



CHEMICAL ENABLE

For this option, it is necessary to make additional connections to the powerboard on the relevant terminals (See Section 2 - Wiring Page 19).

To enable this facility, press the '-' or '+' button and the two dashes on the screen will change to 'En'.

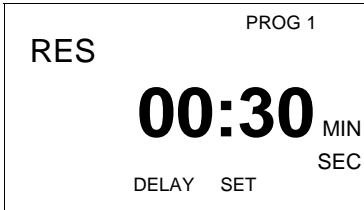
When this facility is enabled, the selected chemical will only run when the appropriate button is pressed on the 'Chemical Enable Module' (Part No. 6650)

Note: For units fitted with the Formula Select option, the chemical enable facility should be left disabled i.e. set on two dashes.

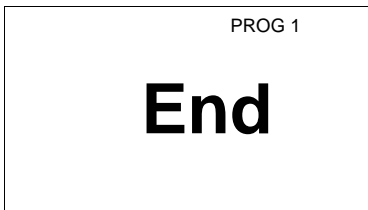
RESET DELAY

The Tracer has a variable reset delay that starts when the dispenser has received a signal to the RESET terminal. The dispenser will not reset until the time shown has elapsed. This facility is useful when the rinse solenoid pulses more than once.

Use the '-' and '+' buttons to change the reset delay.



RESET DELAY



END SCREEN

If the 'JUMP' button is pressed at this screen, the program will go to the first screen in the program. If the formula select module has been fitted, any other formulas should be entered at this point (See '*Copying formula information*' on page 40).

If all the settings are correct (unless other settings are to be entered), they can be accepted by pressing the 'FWD' button. The Tracer will return to the 'Unit Identification Screen'. The settings will be saved automatically if the unit is left in the set mode for over 30 minutes. The screen will revert to the 'Unit Identification Screen'.

SEE BUTTON

This button can be used to view the settings for each chemical without having to enter the PIN number.

Tracer Options

Section 4

Tracer Options

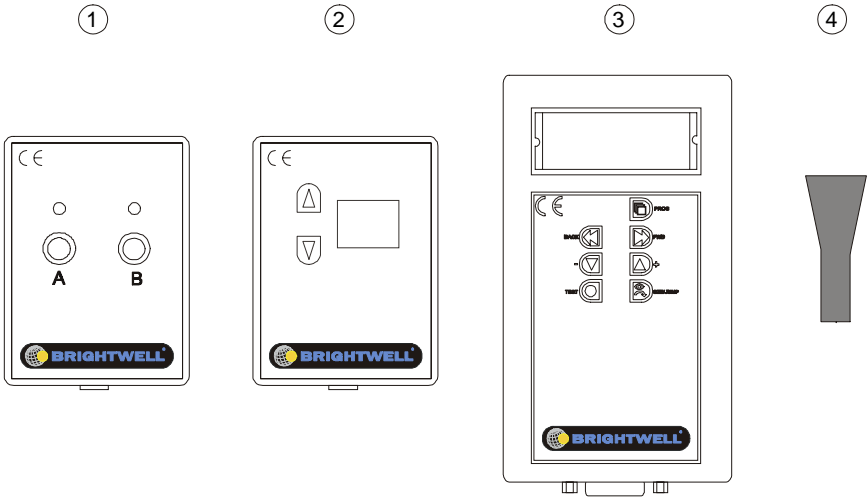


Fig No.	Description	Part No.
1	'Chemical Enable Module' (including lead)	6650
2	'Formula Select Module' (including lead)	6610
3	'Hand Held Programmer' (including lead)	6620
4	'Temperature Probe'	6630

Formula Select Module

Allows the laundry operator to select separate chemical programs up to a maximum of 10. Each level is only available to the operator if programmed in by the installer or provider.

PROGRAMMING FOR THE FORMULA SELECT MODULE

This option allows the programming of up to 10 formulas. Some settings such as signal acceptance and flowrates will remain the same for all the formulas, i.e. 'Global'.

COPYING FORMULA INFORMATION

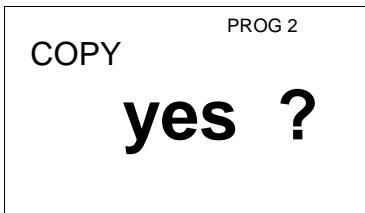
There are two methods of copying formula information. These are as follows:-

ENTERING FORMULA INFORMATION MANUALLY

1. Select Formula 1 and enter all settings manually.
2. Press the 'JUMP' button. The program will return to the first of the setting screens.
3. Press the 'PROGRAM' button. 'Prog 1' on the display will change to 'Prog 2'.
4. The settings for Formula 2 should now be entered to suite your requirements.
5. When the settings for Formula 2 have been correctly entered, Formula 3 can now be selected.
6. Repeat for up to 10 formulas.

COPYING INFORMATION FROM FORMULA 1 TO THE NEXT AVAILABLE FORMULA

Information from Formula 1 can be copied to the next available formula by pressing the 'PROGRAM' button and the 'FWD' button simultaneously whilst in the set mode. The following screen will be displayed prompting whether the information is to be copied or not. Pressing the 'FWD' button at this point will confirm the operation and the display will return to the set mode. The next available formula can now be accessed. If the 'BACK' button is pressed the operation will be cancelled and the display will return to the set mode .



CONFIRMATION

Because only information from Formula 1 is ever copied. It is possible to use a combination of the two programming methods to set up different formulas.

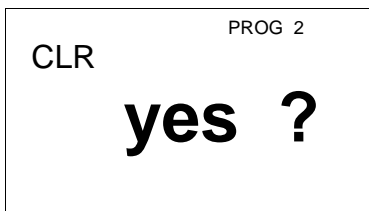
Important: Certain screens are Global, and if modified will affect all formulas. These screens are :-

- FLUSH SOLENOID
- TEMPERATURE SETTINGS (T1 and T2)
- SIGNAL ACCEPTANCE DELAY
- CHEMICAL MOTOR SPEEDS

Once all of the formulas have been entered, the operator can select the desired formula by using the 'up' and 'down' buttons on the 'Formula Select Module'.

To clear any formulas which have been stored, press the 'program' button and 'BACK' button simultaneously whilst in the set mode.

The screen will prompt for confirmation at this point. To confirm the operation, press the 'FWD' button, or the 'BACK' button to cancel.



CONFIRMATION

Note: When the unit has been turned off, or reset the Tracer will default to program 1.

Hand held Programmer

Allows remote programming of most TRACER dispensers.

PROGRAMMING FOR THE REMOTE HAND HELD PROGRAMMER

It is possible to communicate between the 'Tracer Remote Hand Held Programmer' and any Tracer unit above Option 1. All the relevant connecting cables and adapters are supplied with the purchase of the 'Hand Programmer'.

RECEIVING PROGRAM INFORMATION

After connecting the two units with the supplied cable, information can be transmitted or received by the 'Hand Held Programmer' from the installed dispenser.

To receive information on the hand held programmer from an installed unit, press the 'FORWARD' and 'BACK' buttons simultaneously. The 'PRINT' screen will be displayed.



Print

PRINT SCREEN

Press the 'SEE/JUMP' button once. The screen will change to 'REC'.



rec

RECEIVE SCREEN

Press the 'FORWARD' button. The screen will prompt for confirmation.



CONFIRMATION

If the 'FORWARD' button is pressed at this point, the screen will flash 'rec'. Pressing the 'BACK' button will cancel the operation.

TRANSMITTING PROGRAM INFORMATION

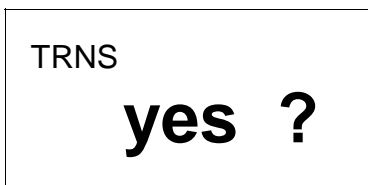
To transmit information, press the 'FORWARD' and 'BACK' button simultaneously. The 'PRINT' screen will be displayed as before. Press the 'SEE/JUMP' button twice and the display will change to 'trans'.



TRANSMIT

Press the 'FORWARD' button and the display will prompt for the PIN of the installed unit to be entered. When this has been entered correctly the screen will prompt for confirmation.

ATTENTION Transmitting information from the hand held programmer will overwrite any existing program on the installed dispenser.



CONFIRMATION

Press the 'FORWARD' button to confirm the operation. If the unit code of the 'Hand Held Programmer' is the same as the installed unit, the screen will flash 'trans' and the information from the 'Hand Held' unit will be transmitted to the installed unit.

If the unit code of the 'Hand Held Programmer' is different from the installed unit, it is possible to change the unit code of the installed unit if desired. The screen will prompt for confirmation at this point. i.e. If the 'Hand Held' unit is a 'TL4' and the installed unit is a 'TL2', the following screen will be displayed.

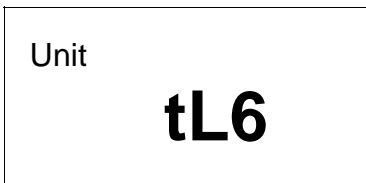


CONFIRMATION

Press the 'FORWARD' button to confirm the operation. Pressing the 'BACK' button will cancel the operation.

ATTENTION In order to transmit to an installed dispenser, the access code of the installed dispenser must first be entered.

The 'Hand Held Programmer' is programmed in the same way as a standard unit. There is no need to enter the PIN number in order to access the program on the hand held programmer. Instead there is an additional screen which enables the unit code to be changed to any of the Tracer range. This is done by pressing the '-' or '+' buttons at the following screen.

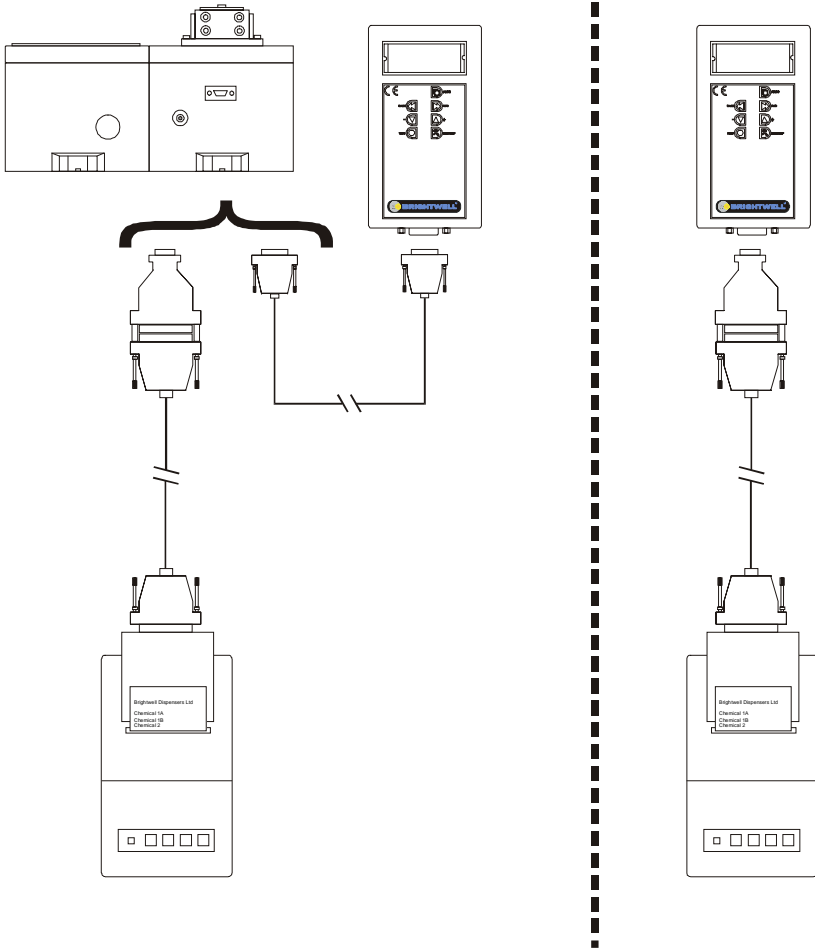


UNIT SELECT

Printing Information

TRACER PRINTER CONNECTIONS

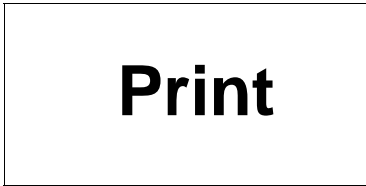
The diagram below shows necessary printer connections



PRINTING PROGRAM INFORMATION

Connect the serial printer to the 9-pin D connector on the unit via the RS232 adapter (*See diagram on previous page*).

Press the 'BACK' and 'FWD' buttons simultaneously, and the screen will display 'PRINT'.



PRINT SCREEN

Press the 'FWD' button and the display will start to flash 'PRINT' until the Tracer has finished sending information to the Printer. If there is a problem with the printer or connection, the unit will display 'error'. If this screen is displayed at any time check printer connections and ensure that the printer is turned on

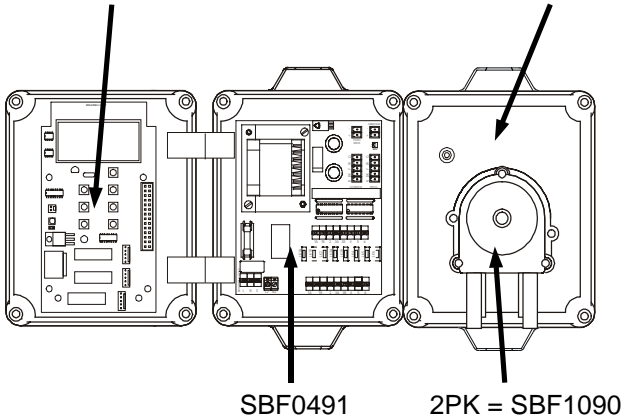


ERROR SCREEN

Note: If it is required to print to a parallel printer, a 'serial to parallel' interface must be used. This can be supplied on request.

Spares

Unit	Option 1	Option 2-4	
TL2	SBF0090	SBF0093	
TL4	SBF0091	SBF0094	SBF1903 (120rpm)
TL6	SBF0092	SBF0095	SBF1901 (80rpm)



Description

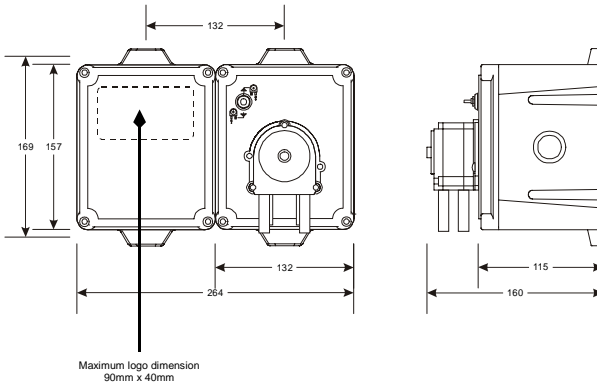
1. 6 x 8 Tube connector (10PK)
2. 8x11 PVC tube (30m roll)
3. Tube stiffener (4PK)
4. Sinkers support (4PK)

Part number

- SBF1633
- SBF1233
- SBF1235
- SBF1234

See install diagram (on page 13) for number references.

Specification



Enclosure:

IP65M ABS

Pump:

**190 ml/min (80RPM)
245 ml/min (120RPM)**

Supply:

~230V 50/60Hz

Fusing:

T400mA

Motor:

24V DC

Approvals:

**EMC 89/336/EEC - EN50081-1:EN50082-1
LVD 72/23/EEC - EN60335-1**

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