

Hand Held Programmer For 202B

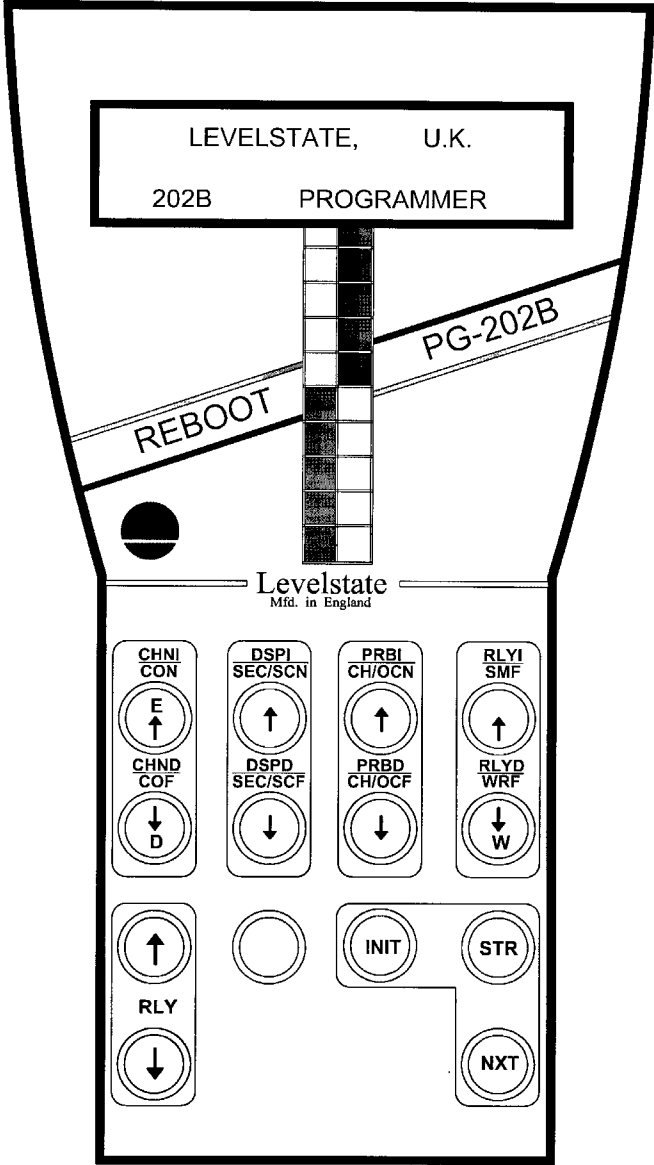


Fig. 1.0 Hand Held Programmer (REBOOT PG202B) Details

“REBOOT PG202B” is used to enter the set value as per the system/process requirement into the memory of the discriminator PCB for onwards transmission to other peripheral boards like Display & Relay Board. The parameters are to be programmed for better & optimum utilisation of the 202B unit with a particular configuration.

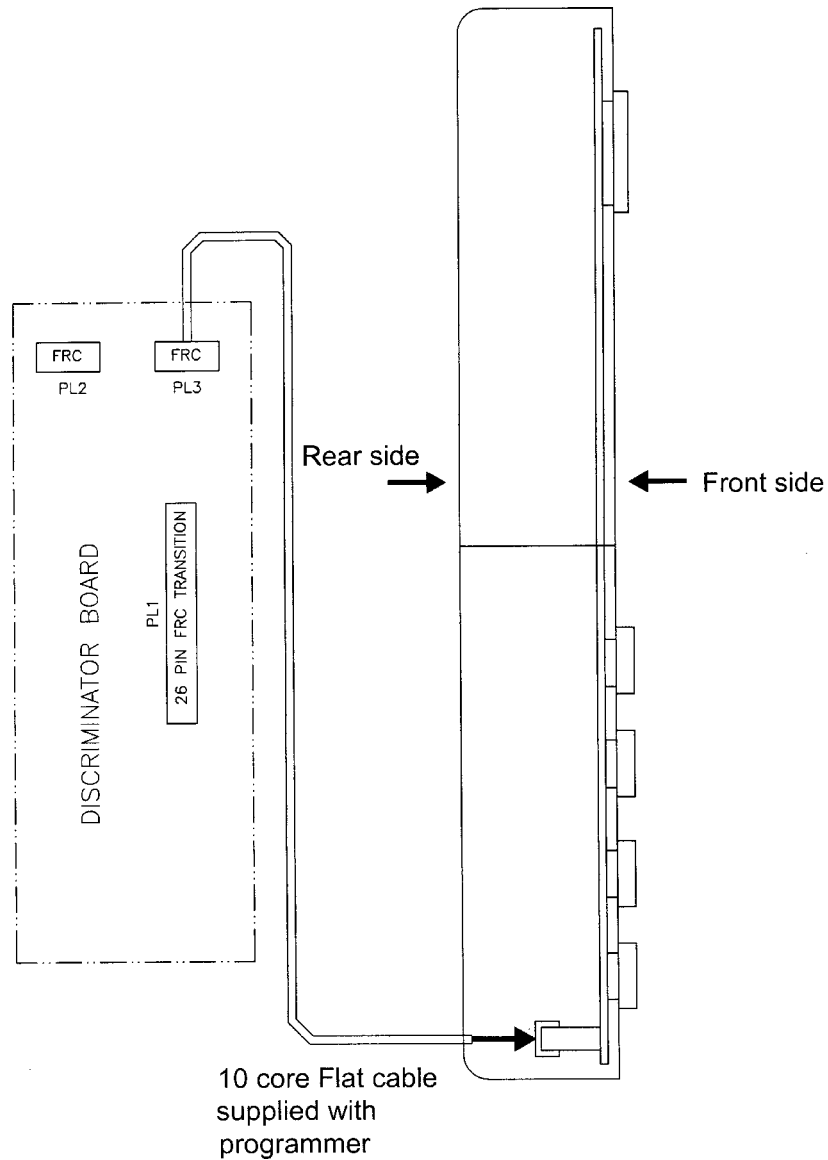


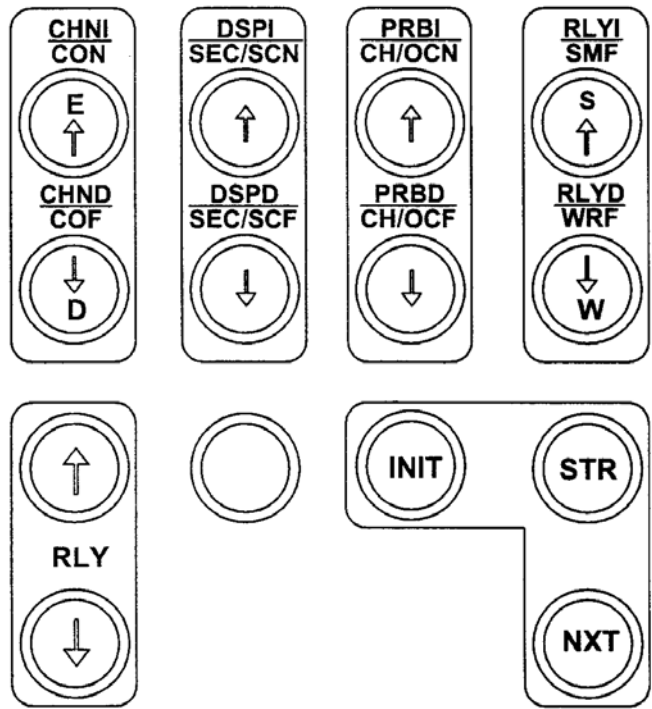
Fig. 1.1 Interconnection diagram of Hand Held Programmer (REBOOT PG202B)

The "REBOOT PG202B" is powered from the 202B unit discriminator PCB. The programming plug PL3 in the discriminator PCB can be connected even while the 202B unit power is ON and it will not affect the system but it is better to remove the Relay connection and power the "REBOOT PG202B" to avoid any nuisance.

Note:- Please be careful while putting the connectors in the female slot of both discriminator PCBs & the programmer.

Before putting the plug in discriminator PCB, please ensure the discriminator PCB power is ON. Otherwise there may be some erratic display on the programme. During programming the discriminator PCB in hold mode and no process is being done in the processor.




Fig 1.2 Key Board Layout :-






1.3 SIGN ON MASSAGE:-

		Levelstate, UK
		202B Programmer
Sign on message will display as soon as the programmer is connected to Discriminator PCB to programme the flash ROM.		
	Button	Action on pressing
Press	(NXT)	→ Move to next screen to programme.
Press	(STR)	→ Store the data after entering/ changing the value in the Flash ROM.
Press	(INIT)	→Initialisation all the register of the Flash ROM with 00 while the Sign-on-Massage in display.
Press	(NXT)	→ Go to 2 nd screen for programming.

CHN XX	DSP XX	PRB XX	RLY XX	→ 2 nd screen.
CHN				→ Number of channels in use.
XX				→ Initial value/previous set value.

Button		Action on pressing
Press	CHNI CON 	→ Increment the channel Number. A valid numeric number from 1 to 48 can be set. Always try to enter an even number.
Press	CHND COF 	→ Decrement the channel Number. A valid numeric number from 48 to 1 can be set. Always try to enter an even number.
Press		→ To store the data in Flash ROM.

Note:- Be careful while entering the data. A wrong data may leads to wrong display and erratic behaviours of the system. After entering a valid data please store the data, immediately.

DSP		→ Total number of channels in the system(16/32/48).
XX		→ Initial value/previous set value.
Button		Action on pressing
Press	DSPI SEC/SCN 	→ Increment the number of display in the display card.
Press	DSPD SEC/SCF 	→ Decrement the number of display in the display card.
Press		→ To store the data in Flash ROM.



1.4 Relay setting:-

Press **(NXT)** → Once again to get the **3 rd** screen to programme.



RLY	E/D	TIM	CH	NC
SF	E	00	**	**

→ 3 rd screen Display.

It shows the system fault setting.


Press	<p>CHNI CON</p> 	→ To set the Relay normally Energised .
Press	<p>CHND COF</p> 	→ To set the Relay normally De-energised .



However, System fault setting is always energised. Time to activate the fault can be programmed through

Press	<p>DSPI SEC/SON</p> 	→ Increase the set time in SEC.
Press	<p>DSPD SEC/SCF</p> 	→ Decrease the set time in SEC.

Maximum set value is 20 sec & minimum set value is 1 sec. After setting the system fault relay data,



Press **(STR)** to store the data.


Next press  Button to set the next Relay.
Relay


<table border="1"> <tr> <td>RLY</td> <td>E/D</td> <td>TIM</td> <td>CH</td> <td>W/S</td> </tr> <tr> <td>1</td> <td>D</td> <td>00</td> <td>00</td> <td>S</td> </tr> </table>	RLY	E/D	TIM	CH	W/S	1	D	00	00	S	→ Display for setting Relay 1, first set the normal state of the relay Energise/De-energised as explained in case of system fault. Next set the channel number assigned to the relay 1 either for alarm a trip through.	
RLY	E/D	TIM	CH	W/S								
1	D	00	00	S								
Press	<p>PRBI CH/OCN</p> 	→ Increase the channel number to be assigned.										
Press	<p>PRBD CH/OCF</p> 	→ Decrease the channel number to be assigned.										

A valid number should be between 1 to the number of total channels, assigned to the Relay 1.


Next – set the normal condition, either water or steam, of the assigned channel to activate the process fault i.e. alarm or trip while change in normal condition to the particular channel.

Press		→ To set normally Steam.
Press		→ To set normally Water.

After entering all the data for relay 1, please store the values by pressing 

Next – press  button to set the next relay i.e. Relay 2, relay 3 & relay 4 till the last relay as set in the **3 rd** screen. With all the relays and the attributes are set as per application requirement and store them for each relay setting.

Relay


During relay setting if required, can go to the previous relay setting by just pressing the relay  Button.



By using **Relay** Check the relay setting in **3 rd** screen i.e. the relay setting screen.



1.5 SC/OC Setting:-

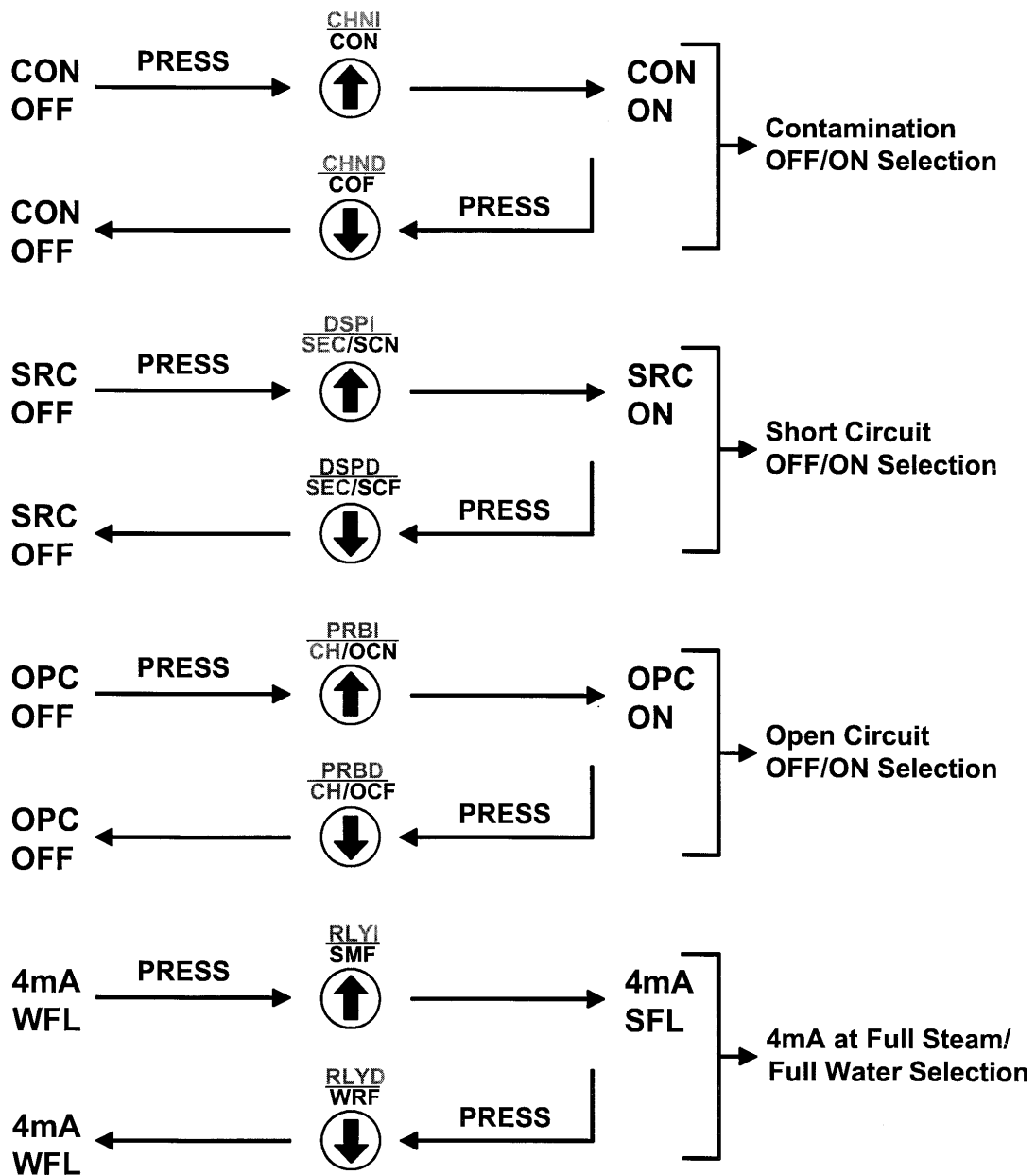
Press		→ Once again to get the 4 th screen to programme.								
<table border="1"> <tr> <td>CON</td> <td>SRC</td> <td>OPC</td> <td>4mA</td> </tr> <tr> <td>OFF</td> <td>OFF</td> <td>OFF</td> <td>WFL</td> </tr> </table>		CON	SRC	OPC	4mA	OFF	OFF	OFF	WFL	→ 4 th screen display
CON	SRC	OPC	4mA							
OFF	OFF	OFF	WFL							

CON → Contamination setting can be “ON/OFF”.

SRC → Short Circuit setting can be “ON/OFF”.

OPC → Open Circuit setting can be “ON/OFF”.

4 mA → 4 mA at Water full or Steam full.



These features are optional and can be set/reset at the field after completing the above setting. Please press

STR To register/store the corresponding values.

Lastly pressing **NXT** Screen moves to 1 st screen i.e. Sign-on-Massage to start a fresh.

Remove the programmer from Discriminator PCB and retain the setting as programmed in the Discriminator PCB. System will back to normal condition.

NOTE:- BOTH THE DISCRIMINATOR PCB SHOULD BE PROGRAMMED BEFORE BRING THE SYSTEM IN OPERATION.