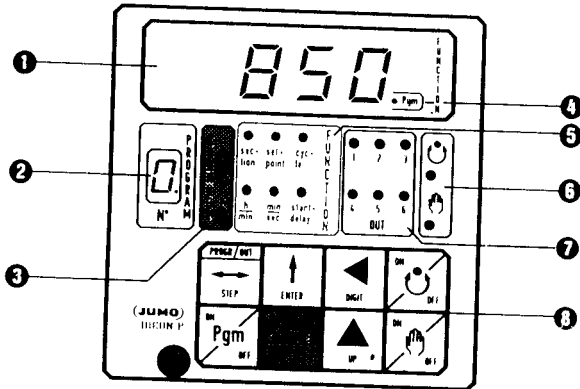


JUMO DICON P

**Microprocessor
Programmer**



Displays and controls

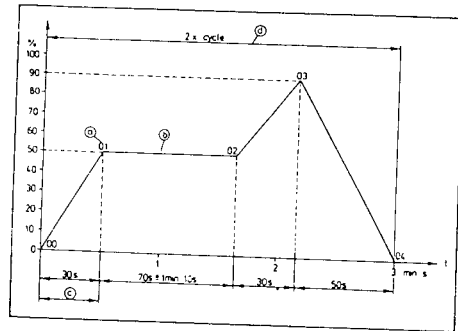
- 1** 5-digit 7-segment display for setpoint and program running time
- 2** Display for: program number, hand operation ("H") alterations in the program sequence ("L") special functions Cd 01-11 ("F")
- 3** LEDs for: channel 1, 2 or 3 (CHANNEL), with channel 3 activated both LEDs are alight simultaneously
- 4** Display of operating mode "programming" ("Pgm")
- 5** LEDs for: section repeat (cycle) setpoint time (h:min or min:sec)
- 6** Automatic or hand operation
- 7** Timing switches (OUT 1-6)
- 8** Membrane keyboard

D 95.620.1

10.89/V

Brief Operating Instructions

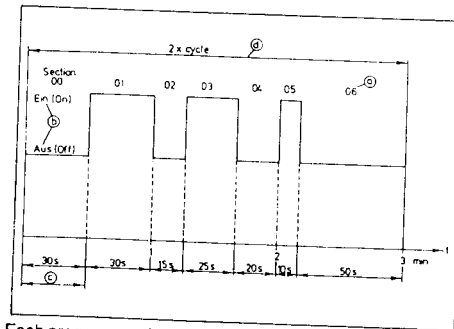
Programming the setpoint curve



Each program section is defined by:

- a** the section number starting with 00
- b** the setpoint
- c** the section time (h:min/min:sec)
- d** any repeat cycles

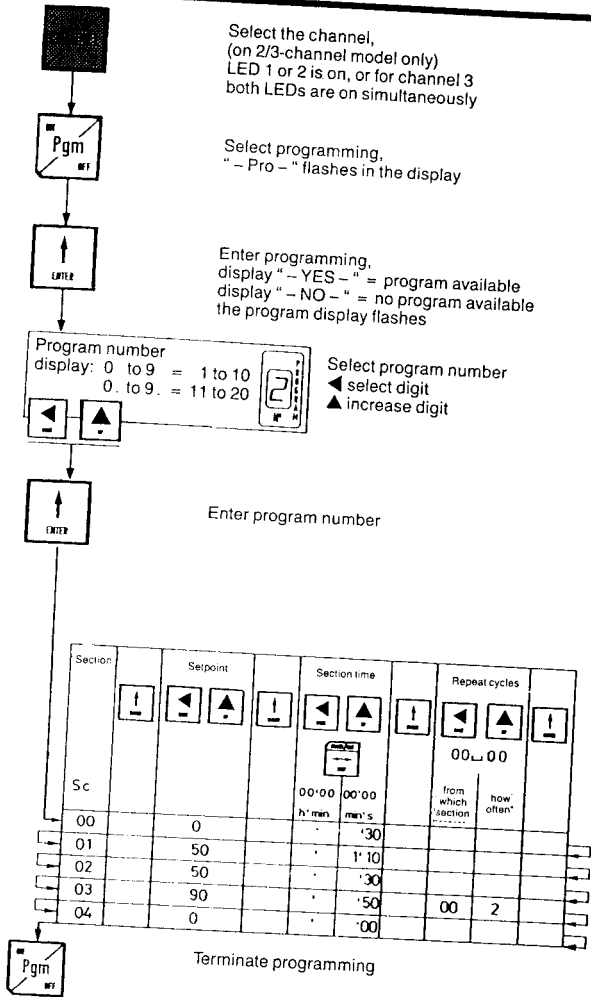
Programming the timing switches



Each program section is defined by:

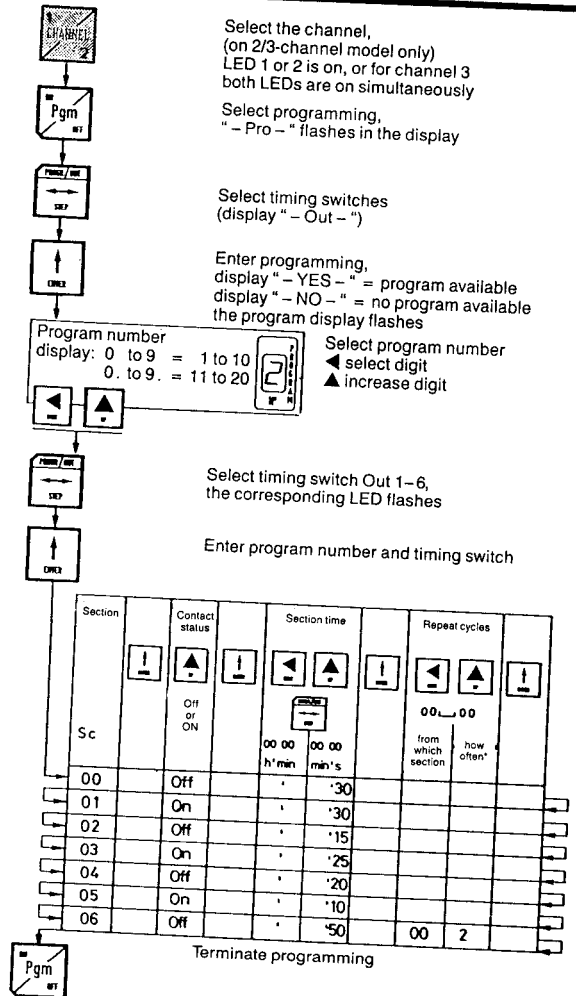
- a** the section number starting with 00
- b** the contact status (OFF/ON)
- c** the section time (h:min/min:sec)
- d** any repeat cycles

PROGRAMMING THE SETPOINT CURVE



* CC = cyclic repeat

PROGRAMMING THE TIMING SWITCHES



* CC = cyclic repeat

AUTOMATIC PROGRAM RUN

Program start

Select the channel,
(on 2/3-channel model only)
LED 1 or 2 is on, or for channel 3
both LEDs are on simultaneously

Select automatic operation
display " - YES - " = program available
display " - NO - " = no program available
the program display flashes

Select program number
◀ select digit
▲ increase digit

Enter program number

Select time base
(h:min/min:sec)

Enter the start delay
◀ select digit
▲ increase digit

Program starts immediately
or after the selected time
has elapsed

Abort program

The instrument returns to
the base setting

Stop program

The time base is stopped,
fixed values can be entered

Display during automatic operation

During automatic operation the following
parameters can be called up:

- setpoint
- the section number
- the residual section time

SPECIAL FUNCTIONS

Selecting the special functions

a total of 11 special functions (Cd functions)
can be selected and executed.
The programming procedure can be
terminated at any time with the "Pgm" key.

Call up channel 1, 2 or 3
LED 1 or 2 is on, or for channel 3
both LEDs are on simultaneously

Select programming,
" - Pro - " flashes in the display

Select the special function,
the display shows "Cd-00",
the program number display shows "F"

Select special functions Cd-01 to 11 from
the Table below

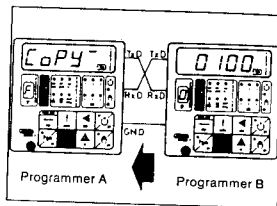
Enter special function

Cd-01	Erase all programs (on all channels)	the display shows "CLEAR" enter with "ENTER"
Cd-02	Erase one program (on the channel selected)	the display shows "C. Pr - 0", input the program to be erased and enter with "ENTER"
Cd-03	Display bottom end of range	acknowledge with "ENTER"
Cd-04	Display top end of range	acknowledge with "ENTER"
Cd-05	Display type of probe	acknowledge with "ENTER"
Cd-06	Display decimal places	the display shows the number of the digits after the decimal point, acknowledge with "ENTER"

SPECIAL FUNCTIONS

Transferring and copying programs

Two programmers (A, B) can be linked together through the interface. The special functions Cd-07 and Cd-08 permit the transfer of all programs or of individual programs from programmer B to programmer A. Transmission does not affect the current program run of programmer B. Operation takes place from programmer A.



Cd-07	Selective program transfer	The display shows "CoP. - 0", input the program number and enter with "ENTER". The display shows "CoPY -".
Cd-08	Transferring all programs on one channel	The display shows "CoP. - A", enter with "ENTER". The display shows "CoPY -".

Error messages during copying procedure

If any errors occur during copying they are indicated on the display with the message "SEryz" (where y is 0 - 1, z is 0 - 9).

In case of an error the program which has just been transferred is erased in the receiving programmer A. The program is also erased if the transfer is aborted by operating a key.

Notes:

The special functions Cd-07 to Cd-10 can be interrupted with any key on the programmer.

The configuration data (probe table, start and end of range and decimal point) must be the same.

SPECIAL FUNCTIONS

Print-out of program

For prototyping the programs can be listed on a printer through the interface.

Protocol printout for channel 1, program 0 and the timing switch program for relay Out-2.

```

Ch1 Prog0 SC00 W=0200 RD3'01
          SC01 W=0400 RD2'02
          SC02 W=0400 RD4'03
          SC03 W=0400 RD1'04
          SC04 W=0800 RD2'05
          SC05 W=0500 RD1'06
          SC06 W=0500 RD1'07
          SC07 W=0200 RD0'01 CY00:CC

Out-1 -----
Out-2 SC00 OFF RD3'01
      EC01 ON RD2'02
      SC02 OFF RD4'03
      SC03 ON RD1'04
      SC04 OFF RD2'05
      SC05 ON RD1'06
      SC06 OFF RD1'07
      SC07 OFF RD0'01 CY00:CC

Out-3 -----

Ch1 Prog1 -----
Out-1 -----
Out-2 -----
Out-3 -----

Ch1 Prog2 -----
Out-1 -----
Out-2 -----
    
```

Cd-09	Printing out selected programs	The display shows "Pri. - 0", input the program number and enter with "ENTER". The display flashes "Print".
Cd-10	Printing out all programs (on one channel)	The display shows "Pri. - A", enter with "ENTER". The display flashes "Print".

Setpoint display in the base setting

Cd-11	Setting the setpoint in the base setting	The display shows "0000", select the desired value with the keys "Up" and "Digit" and enter with "ENTER".
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