

Notes

All safety notes and displays in these operating instructions apply to both the Protronic 500 and the Protronic 550

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Process operation

Description of the operator panel

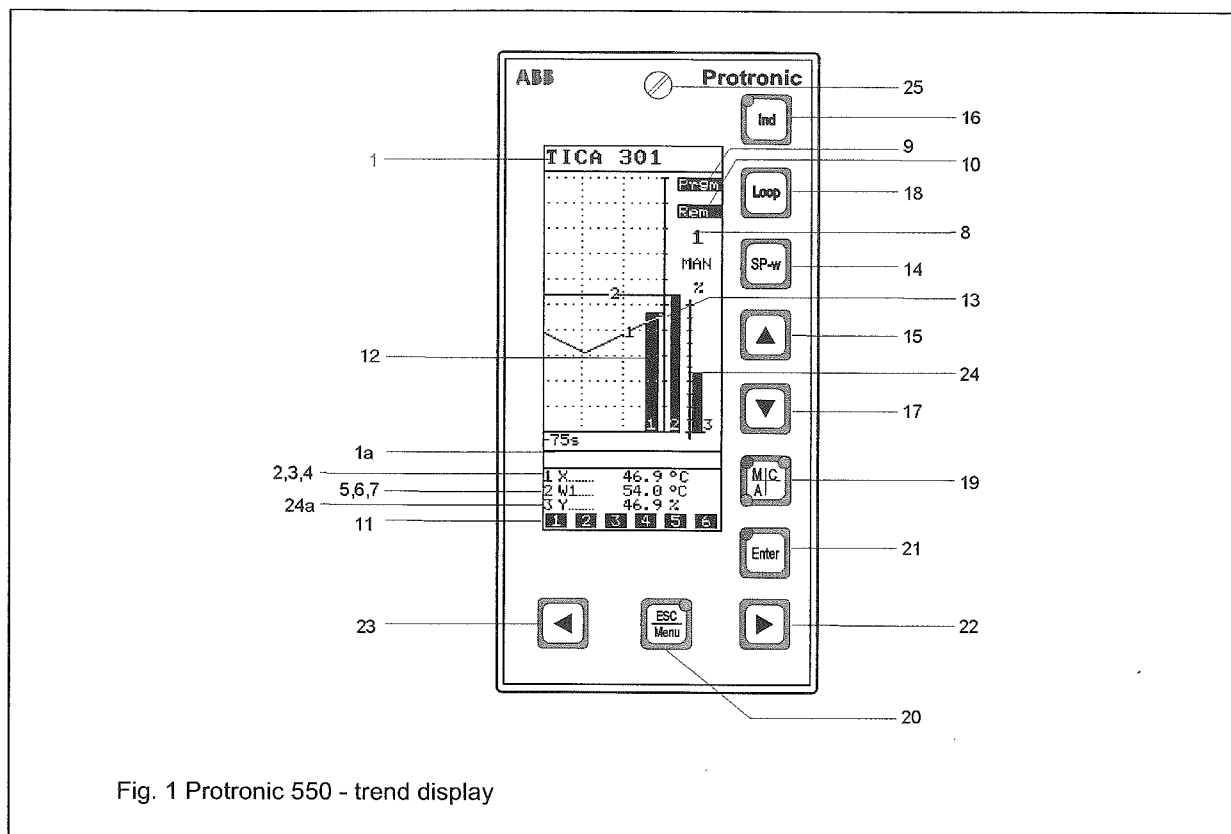


Fig. 1 Protronic 550 - trend display

1	Measurement point number (TAG 12-digit)	15	"Raise" adjustment of the value displayed in 5,6,7
1a	Message line	16	Display selector switch for 5,6,7 LED lights up in past-history mode
2	Digital display controlled variable X	17	"Lower" adjustment of the value displayed in 5,6,7
3	Label controlled variable X	18	Channel (loop) switch-over, shift key for key 16
4	Dimension controlled variable X	19	Operating mode transfer, manual-automatic (cascade) with associated LEDs
5	Digital display which can be changed over with <Ind>: in automatic mode normal W, in manual mode normal Y	20	Entry into the parameter-definition and configuration levels. Associated LED lights up immediately the operator control level has been left.
6	Label of the value displayed	21	Acknowledgement of alarms and parameter setting and configuration data
7	Dimension of the value displayed	22	Manual mode "raise"
8	Number of the control loop displayed changes with "A" in alarm	23	Manual mode "lower"
9	Display for active programmer	24/24a	Controller output Y
10	Display for activated remote control	25	Closing screw
11	Binary flags (freely configurable messages for binary events)		
12	Analog display controlled variable X		
13	Analog display setpoint W		
14	Setpoint switch-over		

The numbers of the individual control and display elements are used identically in all parts of the documentation of the unit.

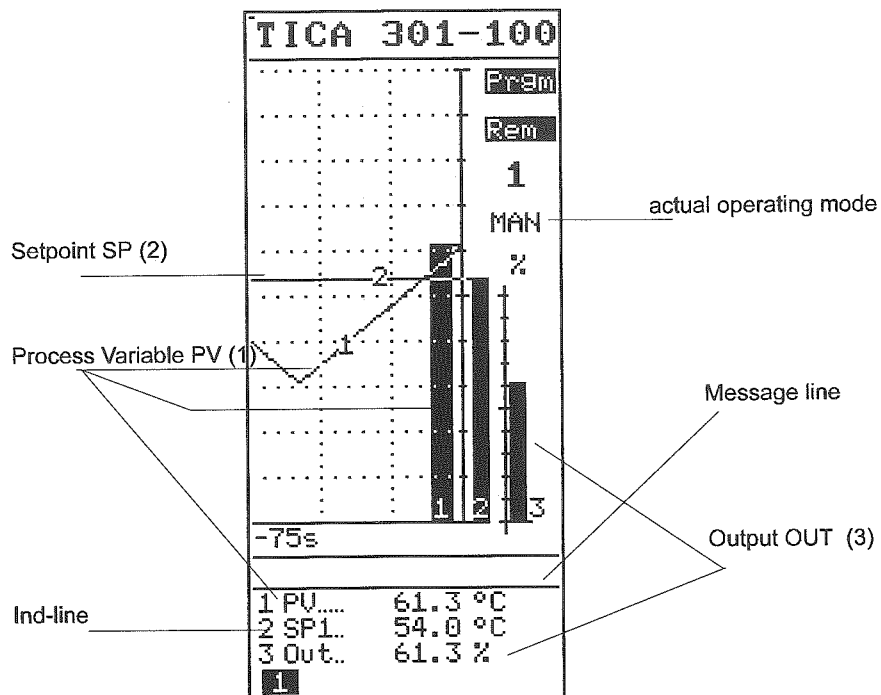


Fig. 2. Trend display

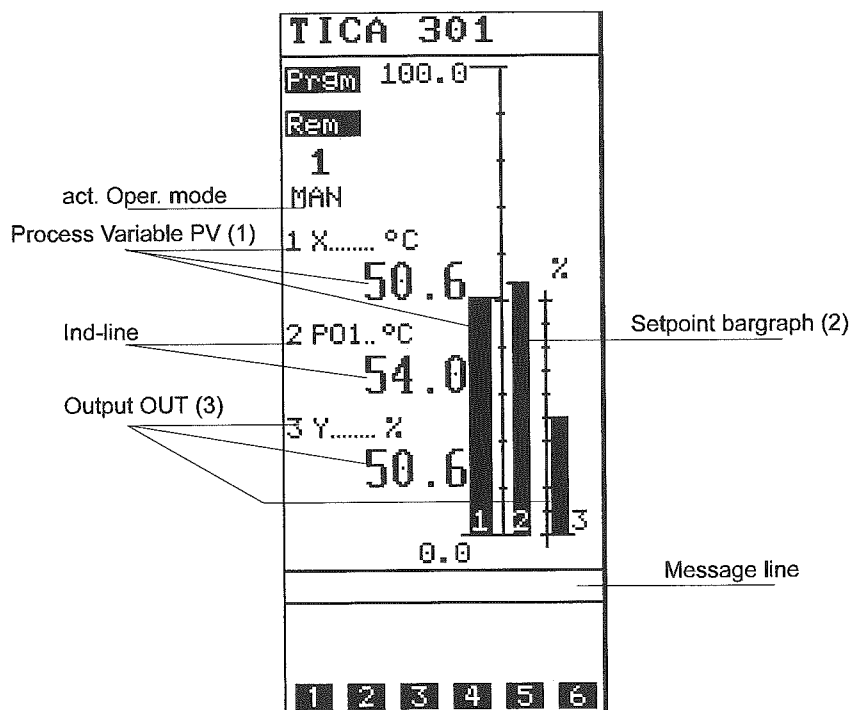


Fig. 3. Numerical display

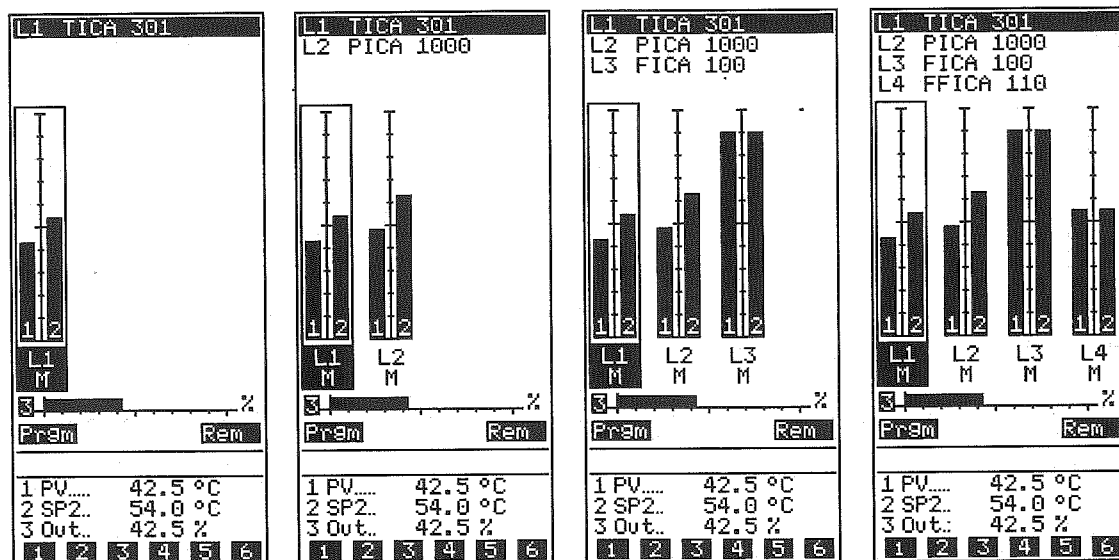
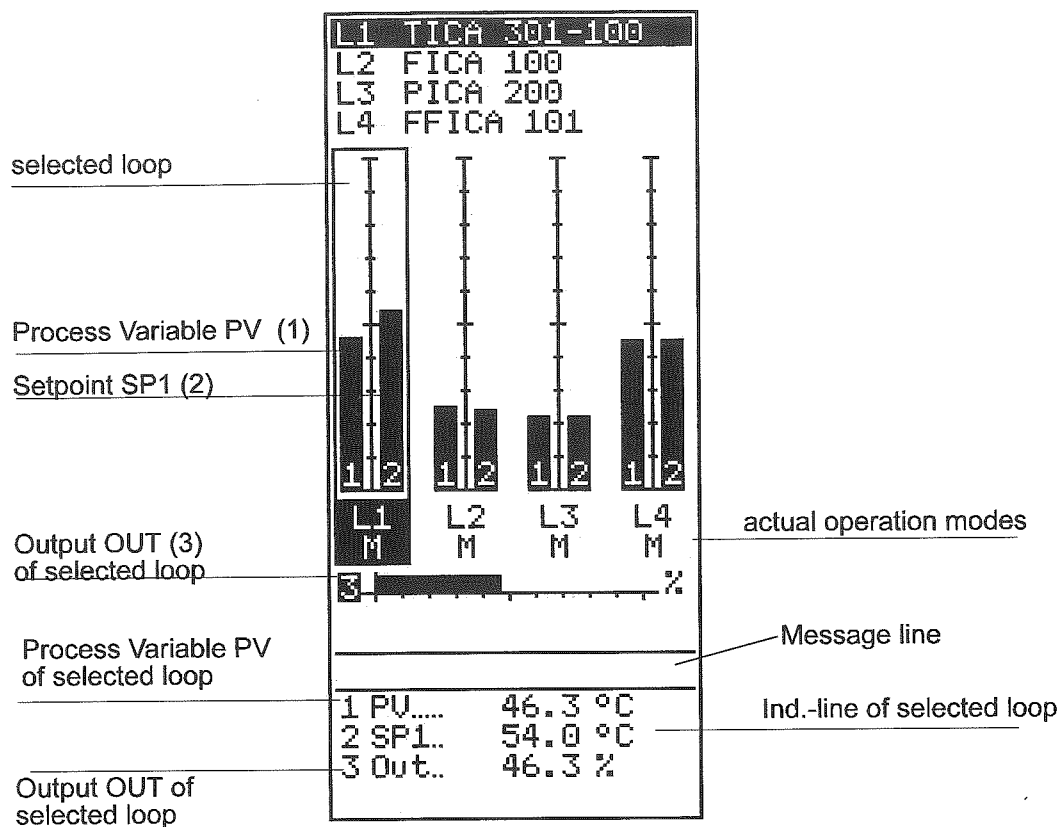


Fig. 5 Overview display with one to four loops

Display switch-over

Holding down <Loop> switches over the displays cyclically at intervals of 2 seconds.

Alarm handling

Alarm message

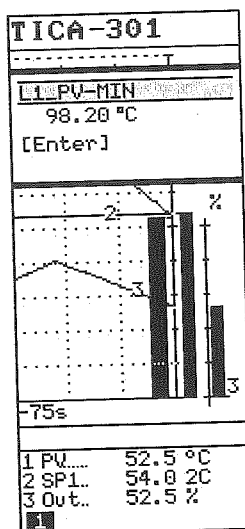


Fig. 6. Trend display with alarm window

If an alarm message has been configured in the display,

- a flashing error message with precise information on the cause of the fault and the value of the infringed alarm value is entered in the display field
- the red LED next to the <Enter> key lights up,

when an alarm value infringement or an error in the operating cycle occurs.

Alarm acknowledgement

Alarms displayed are acknowledged with <Enter>.

If further alarms are present, they are acknowledged either singly or collectively, depending on the configuration.

Acknowledged alarms are no longer visible.

Past-history mode

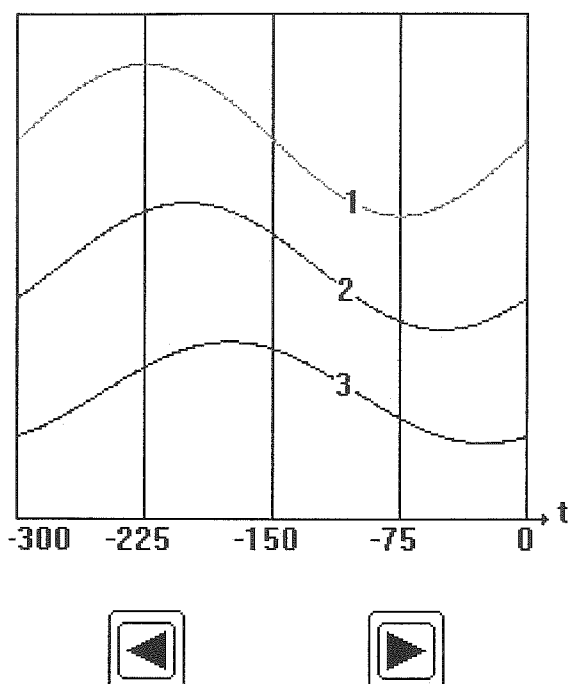


Fig. 7 Past-history mode

"The transfer to "past-history" mode is achieved by holding down the <Loop> key and actuating the <Ind> key. The LED in the <Ind> key lights up.

300 values (each) which were stored up to the moment of mode transfer, are displayed for X, W and Y. After this they are then no longer updated automatically and remain until an updating, or a new calling of the past-history mode (see "Quitting").

The interval between the measured values is defined by the configuration of the trend display.

The controller cannot be operated in this mode. It is not possible to change setpoint, correction value or operating mode.

The recording of the current values continues without interruption in the configured loops (1 to 4).

It is possible each time to scroll 75 points of the recording using the <> and <> keys.

Quitting past-history mode

There are two ways of quitting the past-history mode:

1. Temporary quitting

Quitting without deleting the display

- during an update or
- in order to look at the stored values again later.

Key <Ind>

2. Final quitting

If the past-history mode is called again, the current values of the current loop are automatically brought into the display.

Key <Esc> followed by key <Ind>

Updating the recording

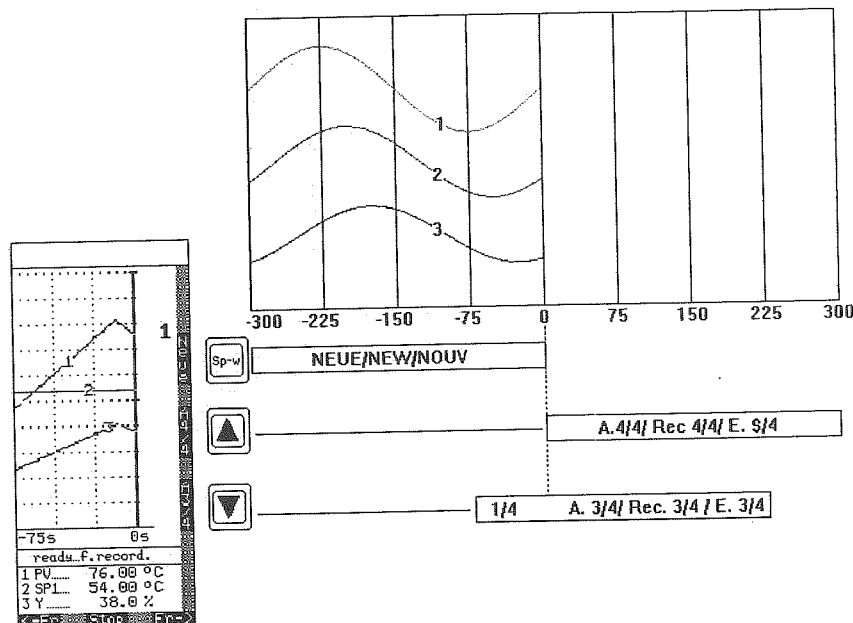


Fig. 8. Updating

After the past-history mode has been called, the values stored for the display can be updated at any time. This possibility is signalled in the message line.

Ready f. record

Three options are offered for this.

1. 300 measured values stored in the direct past history
2. 75 measured values in the direct past history and the recording of a further 225 updated measured values
3. The recording of 300 new measured values.

The keys <Sp-w>, <<> and <>> are used to call one of these updates. These keys now have the following functions:

<Sp-w> = <New> copies 300 values from the direct past into the display memory. The transfer of the measured values into the memory is confirmed in the message line.

new rec. ready

<^> = <A4/4> starts the recording of 300 new values. The fact that recording is taking place is confirmed in the message line:

rec 4/4 runs

<v> = <A3/4> copies the 75 newest values into the display memory and starts the recording of 225 new values. The fact that recording is taking place is confirmed in the message line.

rec 3/4 runs

Immediately the measured values are available the message appears in the message line

rec 3/4 ready

or

rec 4/4 ready

The data are always stored in the display memory and they remain available in this until they are overwritten by new data.

It is possible each time to scroll 75 points of measurement with the <<> and <>> keys.

<Esc> = <Stop> aborts the updating.

Operator control level 2

Indicating 2

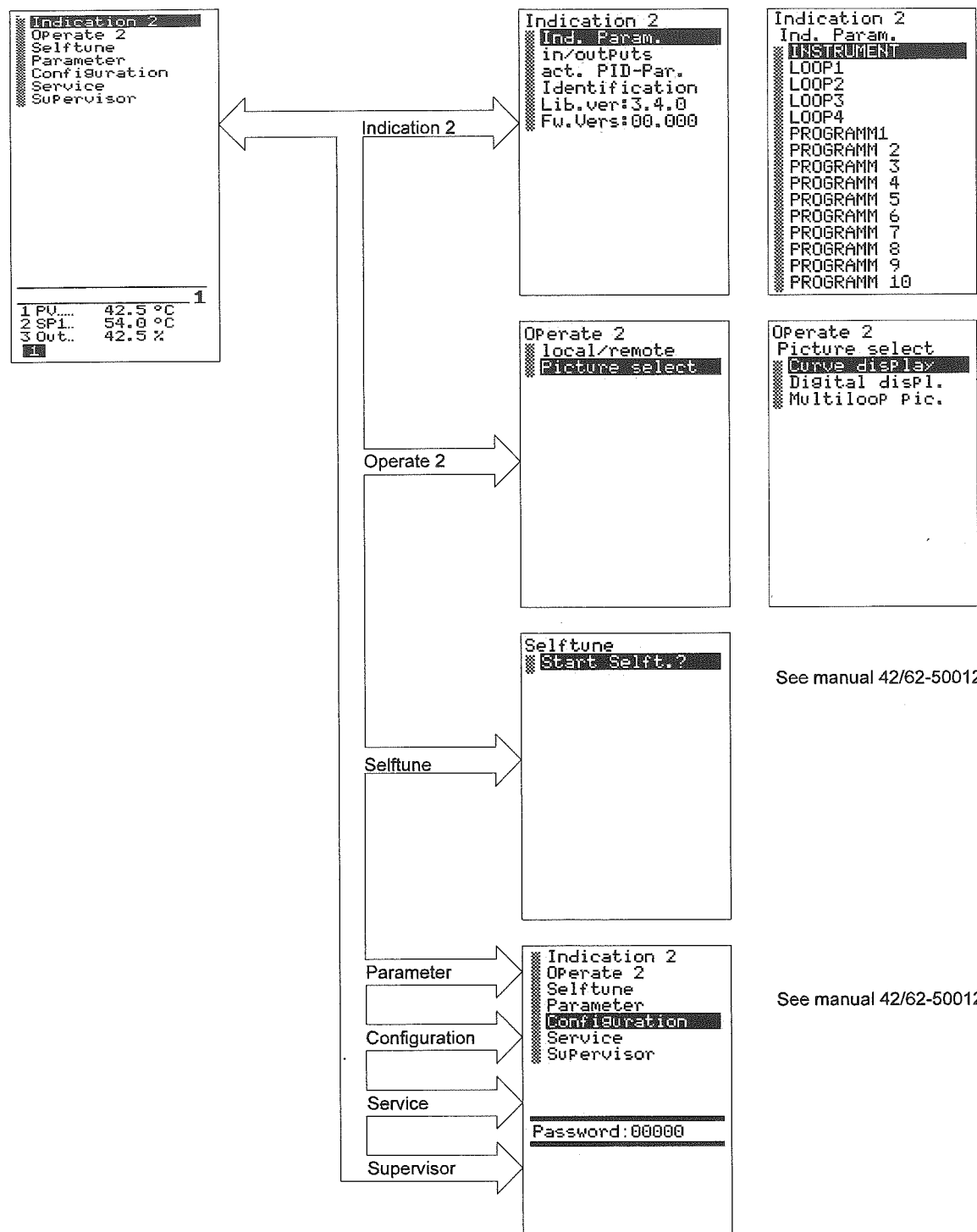


Fig. 9 Operator control level 2, displays 2

Subject to technical changes.

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