AC20 Quick Start Instructions

Keyboard Description:

MENU: Is used to select a parameter group.

FUNC: when the instrument is in Normal Display Mode changes the indication on the lower display (default display is % of control output).

MAN: When the instrument is in Normal Display Mode, pushing MAN for more than one second enables or disables the manual function.

Press ↑ Key during parameter modification to increase the value of the selected parameter.

Press ↑ Key during MANUAL Mode to increase the output value.

Press ↓ Key during parameter modification to decrease the value of the selected parameter.

Press ↓ Key during MANUAL Mode to decrease the output value.

Press TST+MAN Hold TST and then press MAN button to start the Burnoff function.*

Press TST+FUNC Hold TST, then press FUNC Button to start the Probetest function.*

Test + MENU Are used to start the lamp test function (the command is accepted when push-buttons are kept depressed for more that 5 seconds and the instrument is in normal display mode)

Press TEST + FUNC during parameter modification to increase/decrease the value under modification to higher rate.

Press TEST+MAN during parameter modification to jump to the max or min programmable value.

* Two conditions apply: First, the burnoff function must be configured and second, it must be at least 10 minutes from the last burnoff, for the test to start.
Notes:

1) All the actions explained on the previous page which require two or more push-buttons must follow exactly the push-button sequence shown.

2) A 30-second time-out period is operational for the modification portion of the instrument. If no push-buttons are depressed within 30 seconds the instrument will automatically go to Normal Display Mode.
Display Indicators

Press the **FUNC** button to change the bottom display to the following.

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>mV</td>
<td>Lit when the sensor out (in mV) is shown on the lower display.</td>
</tr>
<tr>
<td>TP</td>
<td>Lit when the sensor temperature is shown on the lower display.</td>
</tr>
<tr>
<td>CP/DP</td>
<td>DP Lit when instrument is in % control mode</td>
</tr>
<tr>
<td></td>
<td>CP lit when instrument is in dew point control mode</td>
</tr>
<tr>
<td>COF</td>
<td>Lit when the carbon monoxide factor is shown on the lower display.</td>
</tr>
<tr>
<td></td>
<td>(Only used when controlling Carbon Potential)</td>
</tr>
<tr>
<td>H2F</td>
<td>Lit when Hydrogen factor value is shown on the lower display.</td>
</tr>
<tr>
<td></td>
<td>(Only used when controlling DewPoint)</td>
</tr>
<tr>
<td>K</td>
<td>Lit when the probe resistance value is shown on the lower display.</td>
</tr>
<tr>
<td>SEC</td>
<td>Lit when the sensor response time is shown on the lower display.</td>
</tr>
<tr>
<td>LT</td>
<td>Lit when the probe temperature of the last probe test is shown on the lower display</td>
</tr>
</tbody>
</table>

Other LEDs Displayed:

1 – Lit when:
   - Out 1 is used as control output and it is **ON** condition
   - Alarm 1 is in alarm state and acknowledged.
     Flashes when alarm 1 is in alarm state and it is not acknowledged.

2 – Lit when:
   - Out 2 is used as control output and it is **ON** condition
   - Alarm 2 is in alarm state and acknowledged.
     Flashes when alarm 2 is in alarm state and it is not acknowledged.

3 – Lit when:
   - Out 3 is used as control output and it is **ON** condition
   - Alarm 3 is in alarm state and acknowledged.
     Flashes when alarm 3 is in alarm state and it is not acknowledged.
To Change Process Setpoint:

When the device is in AUTO Mode and in Normal Display Mode

- Press the ↑ or ↓ for more than 2 seconds, and the set point will begin changing.
- After achieving the desired set point, the instrument will time out for 2 seconds, and flash the new setting, indicating it has accepted the change.

To Change to CO Factor (When Instrument is in Carbon Control Mode):

When the device is in AUTO MODE and in Normal Display Mode

- Press the MENU button – (Gr. 1 will be displayed in Yellow)
- Press FUNC Button twice - This will display COF in the bottom window and the value in the middle window (Set Point Window)
- Adjust the parameter by using ↑ or ↓ key
- After achieving the desired value, you must press the FUNC button once again for the change to be accepted.
- The instrument will time out for 30 seconds and return to Normal Display Mode or you may press the MENU button several times until you return to Normal Display Mode
- To Verify that your change was accepted you may view the COF by pressing the FUNC button until you reach COF in the lower Display.

To Change to H₂F Factor (When Instrument is in Dewpoint Control Mode):

When the device is in AUTO MODE and in Normal Display Mode

- Press the MENU button – (Gr. 1 will be displayed in Yellow)
- Press FUNC Button three times - This will display H₂F in the bottom window and the value in the middle window (Set Point Window)
- Adjust the parameter by using ↑ or ↓ key
- After achieving the desired value, you must press the FUNC button once again for the change to be accepted.
- The instrument will time out for 30 seconds and return to Normal Display Mode or you may press the MENU button several times until you return to Normal Display Mode
To Verify that your change was accepted you may view the $H_2F$ by pressing the **FUNC** button until you reach $H_2F$ in the lower Display.

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To Change to Burnoff Timers:

- When the device is in **AUTO Mode** and in **Normal Display Mode**
- Press the **MENU** button – *(Gr. 1 will be displayed in Yellow)*
- Press the **MENU** button until you reach **Gr. 8 displayed in Yellow**
- Pressing the **FUNC** button to scroll through parameters *(refer to Operators Manual for description of parameters)*
- After achieving the desired set points, you must press the **FUNC** button once again after every change for it to be accepted.
- The instrument will time out for 30 seconds and return to “**Normal Display Mode**” or you may press the **MENU** button several times until you return to **Normal Display Mode**

To Perform A Probe Burn-off

- Press the **TST** button and **Hold** then press the **MAN** button
  The burnoff will begin and after it is completed, it will return to **Normal Display Mode**

To Perform A Probe Test

- Press the **TST** button and **Hold** then press the **FUNC** button
- The ProbeTest will begin and after it is completed, it will return to **Normal Display Mode**
- To display the results of the test, press the **FUNC** button until **SEC** (Sensor response Time), and **K** (Probe resistance).