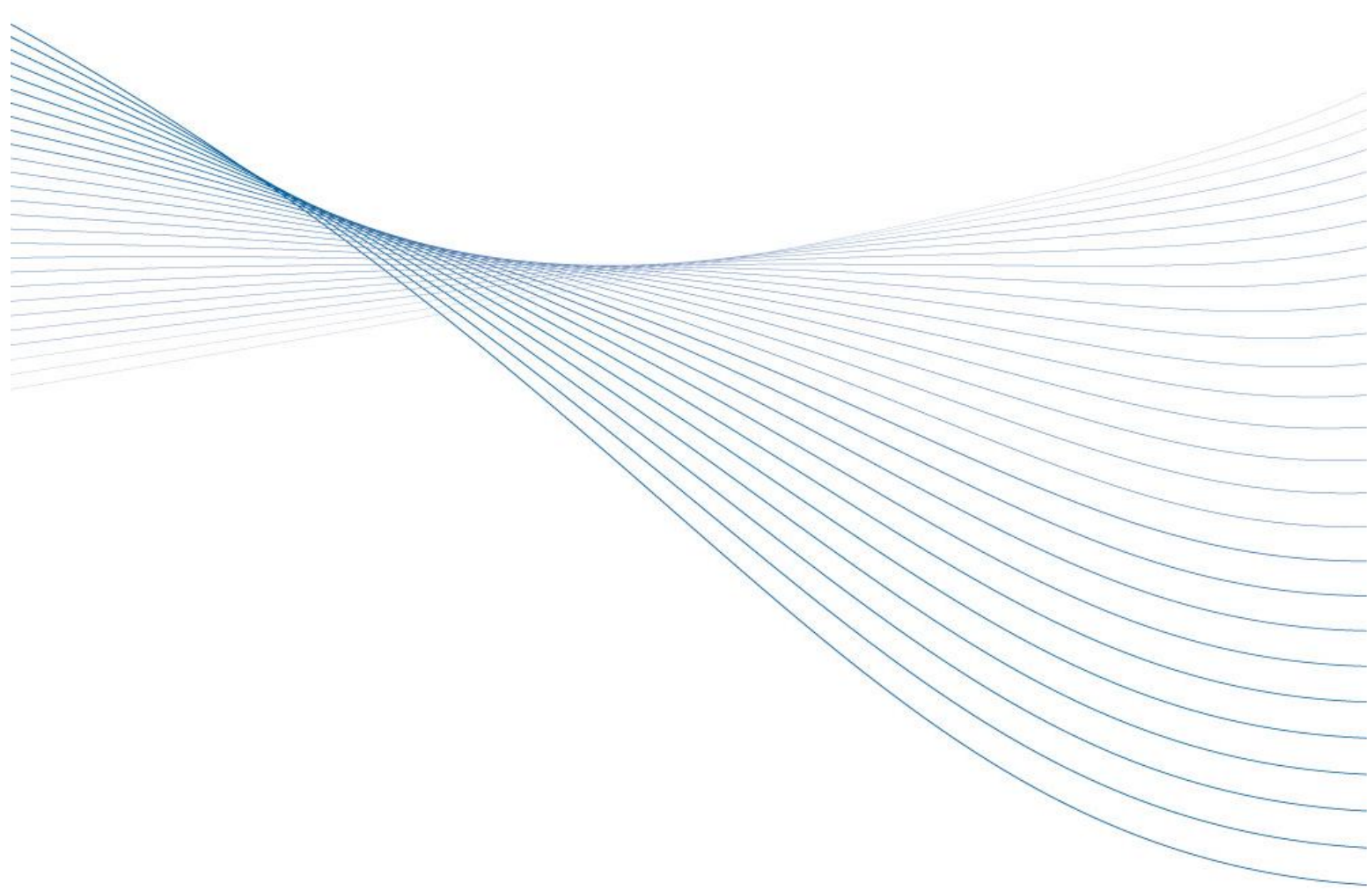




LPKF Profile Recorder

Installation Instructions

ProtoFlow S - ENG



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Profile recorder module is intended to measure the temperatures of PCB's in user-defined positions (i.e. PCB temperature, component surface temperature).

It contains four K-type thermocouple sensors and measuring electronics, and is situated at the front of the drawer.

The measured temperatures can be shown directly on the oven's LCD and also on a PC with the LPKF FlowShow software (USB communication required).



The profile recorder module can be integrated into the oven when it is ordered directly with ProtoFlow S, or simply added later when it is delivered separately as extra optional equipment. All ProtoFlow S are already pre-installed with electrical installation for Profile recorder module.



The Profile recorder can be used only with LPKF ProtoFlow S ovens

	<p>ELECTRICAL HAZARDS</p>	<p>Direct contact with a damaged electrical component, or intervention into a dangerous area when the device is connected to the mains supply, can result in injury.</p>
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Switching ON

- Turn ON the oven
(The power switch is illuminated when the power is on)



Open the drawer

- Select function "OPEN/CLOSE" in "SETTING" menu



Switching OFF

- Turn OFF the oven
- Leave the drawer open
- Unplug a power cord from the mains

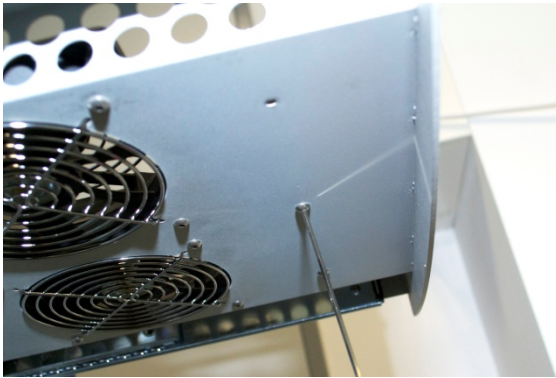


Position of the “blank” cover:

- The “blank” cover which covers the profile recorder installation is situated at the front of the drawer



Disconnect the system from the mains during all maintenance work on the system.



Exchanging the “blank” cover with the “Profile recorder” module:

- Unscrew all three screws from the bottom side of the drawer
- Use Allen Hex key no.:2.5



Caution!
The shorter part of the Allen key should be used.



Remove the screws

- Remove all three screws completely
- Gently lift up the “blank” cover



Caution!
Pay attention to not scratch the glass



Lifting up

- Lift up the “blank” cover
- Remove cable from a clip
- Pull out a rubber grommet



Inserting the “profile recorder” module

- Take a “profile recorder” module and put it in the drawer with the electronic side up.
- Fix the cable with pushing the rubber grommet into the slot



Electrical connection:

- Take a connector body
- Gently plug it in



Fix the module

- Flip the module and place it in its place
- Fix the module with screws from the bottom side of the drawer



The installation procedure is finished.

- Plug the power cord into mains
- Press the power switch to turn ON the oven

After turn ON the oven, the oven recognize profile recorder automatically. Set the adequate LCD view that the measured temperatures can be shown directly on the oven's LCD and also on a PC with the LPKF FlowShow software. Detailed information you can find in ProtoFlow S User manual.

Choose the number of sensors to be displayed on the LCD:

SETTINGS → LCD VIEW →

LCD 5CH (current center temperature and the temperatures of four additional sensors)

LCD 7CH (current left, right and center temperatures of the chamber and temperatures of the four additional sensors)

NOTE:

The LCD shows all temperatures from the external Profile recorder either the thermocouple sensors are connected into profile recorder module or not. In this case the room temperature (cca 25 °C) is shown on the LCD as external sensors temperatures.

TROUBLESHOOTING:

When the "profile recorder" module has not been connected regular or it doesn't work, the following warning "NO PROFILE RECORDER" is displayed, at turn ON the oven. Please check the connections again.