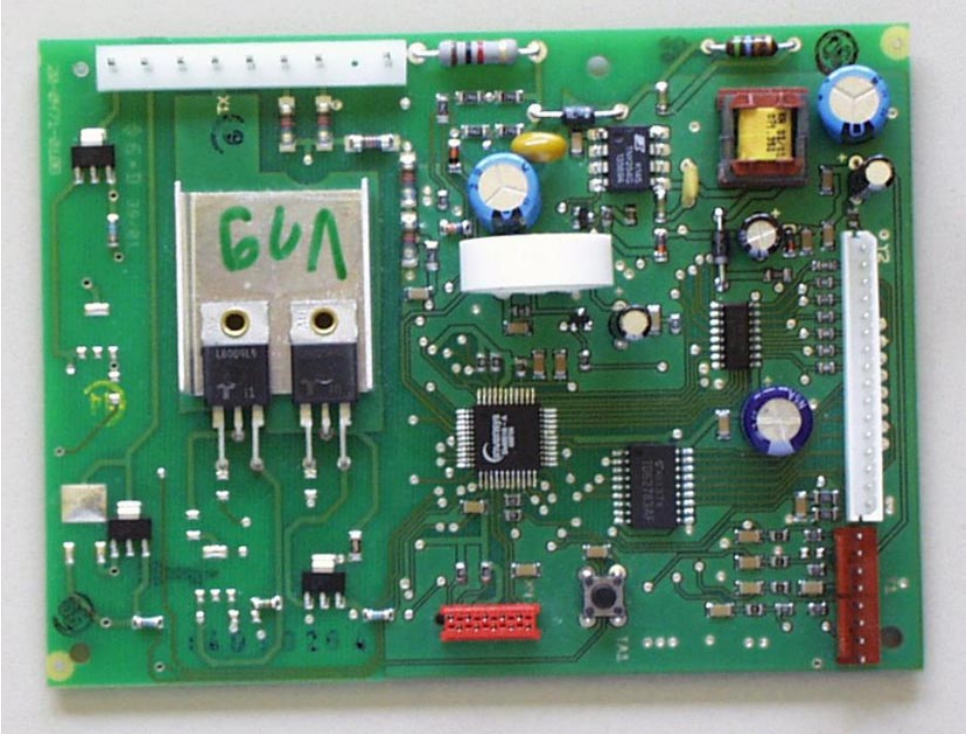
E74 - Electronic Control



E74 - CONTROL FOR NO-FROST FRIDGE/FREEZERS

DESCRIPTION

The E74-H5000 electronic control is a flash microprocessor operated temperature control specifically developed for no-frost fridge/freezer appliances with a remote evaporator, air circulating fan and heater assisted defrost. The E74's unique adaptive defrost software significantly reduces energy consumption by intelligent control of the fan and by adapting to changing ice conditions. In its standard execution, the E74-H5000 integrates the thermostat functions, adaptive defrost timer, operating lamp, fast-freeze selector/indicator, temperature alarm lamp and provides a connector for ad-on digital temperature display.
This integration of functions together with intelligent built-in test features reduces assembly and test time for the OEM leading to system cost savings.

STANDARD FEATURES

- Temperature control of freezer compartment
- Fast-Freeze with automatic cancel
- Thaw warning after power-outs
- Energy saving adaptive defrost function
- Indicator lamps: - green on/off
  - yellow fast freeze
  - red alarm
- Customized 2-digit 7-segment display with minus sign to show set-point and actual temperatures
- Compressor start delay
- Built-in test routine
- Sensor fault recognition and indication.

OPTIONAL FEATURES

- Acoustic door-ajar alarm
- Acoustic temperature alarm with cancel feature
- Interior lamp control
- On-board EEPROM for parameter storage, enabling settings and parameters to be changed during manufacture
- Quick fridge feature
- Economy & holiday features

DESIGN FEATURES

- Accurate and stable temperature control with narrow switching differentials possible
- Integration of functions and the indicators, LED´s, push buttons, displays via a remote PCB.
- Interface to Siebe SETT system for easy customisation of control settings and options
- Simple installation in the top panel of the appliance.
- Designed for use with Invensys L66 Temperature Sensors.
- Complies with EN 60730, EN 60335 and the EMCStandards EN55014-2 & EN55014 & EN60555

SPECIFICATION

• Supply voltage:	130 to 270 V~ at 50 Hz
• Self consumption:	< 1.5 W
• Operating temperature:	0 to 55 °C
• Storage temperature:	-30 to 70°C
• Compressor:	10 A in-rush (14s max)
(PTC or Start Relay)	1.5 A nominal (pf>0.4)
• Fan:	15 VA
• Heater:	300 W
• Settings:	programmable.

DISCLAIMER
This manual and its contents remain the sole property of Invensys, and shall not be reproduced or distributed without authorization. Although great care has been exercised in the preparation of this document, Invensys, its employees or its vendors, cannot accept any liability whatsoever connected with its use. Invensys reserves the right to make any changes or improvements without prior notice.

Invensys Appliance and Climate Control Systems Europe

HEADQUARTERS

Europa 3 - Parc d'Affaires International
74160 Archamps
FRANCE
tel. 0033.450.820.813
fax. 0033.450.820.831

PRODUCTION PLANT

Siebe Appliance Controls GmbH
Heerwasenstraße 25
D 78559 Gosheim - Baden-Württermberg
GERMANY
tel. 0049.07426.6020
fax. 0049.07426.602212

http:\\www.appliance-eu.invensys.com

release 05/2002