

Thank you for choosing FLEXTHERM. This power base has been designed to power an FLP/FLK series control module. The maximum load is 15 A.

## INSTALLATION & WIRING

### Guidelines

**WARNING: TURN OFF POWER AT THE MAIN POWER PANEL TO AVOID ELECTRICAL SHOCK.**  
Installation should be carried out by an electrician.

- ▶ Use an expanded thermostat connection box.
- ▶ Choose a location about 1.5 m (5ft.) above the floor and on an inside wall.
- ▶ Avoid locations where there are air drafts (top of staircase, air outlet), dead air spots (behind a door), direct sunlight or concealed chimneys or stove pipes.

### Supplied Parts

- ▶ One (1) power base;
- ▶ One (1) control module (not included in the replacement power base);
- ▶ Two (2) screws;
- ▶ Four (4) solderless connectors for copper wires;

**NOTE:** Special CO/ALR solderless connectors must be used when connecting with aluminum conductors.

- ▶ One (1) 4.6 m (15 ft.) floor sensor including a flat tip screwdriver (not included in the replacement power base).

### 1) Separate the control module from the power base

Remove the screw (captive) holding the control module to the power base.

Lift the lower part of the control module upwards to remove it from the power base.

### 2) Connect the thermostat wires (Figure 1)

Connect the rear thermostat wires to the floor heating system wires (load) and to the power supply (☉) using solderless connectors for copper wires.

The floor heating braided shields or green wire as well as the power supply copper ground wires must be secured to the ground terminal.

### 3) Connect the floor sensor (Figure 2)

**NOTE:** Using an ohmmeter, verify the sensor's integrity. It must read between 8 to 12 K Ohms in order to obtain temperature readings between 20°C and 30°C (68°F to 86°F).

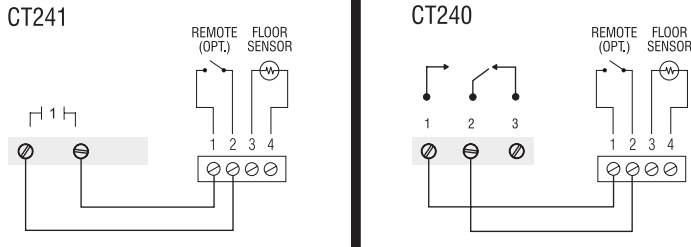
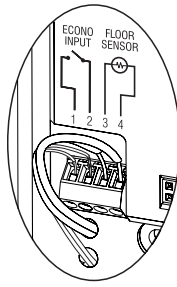
- Insert the wire into one of the two holes available below the terminal board and connect the wire ends to terminals 3 and 4 (no polarity) as per Figure 2.
- The wire must run on the left side of the cavity located on top of the terminal board, outside the electrical box and follow the wall down to the floor.
- The wire must be centered between the heating cables at a distance of 30 to 60 cm (1 to 2 ft.) within the heating zone. **Do not cross the probe wire over the heating cables.**
- The sensor should be placed in a neutral location, not near any other heating or cooling sources.
- Secure the sensor to the floor using hot glue. It is necessary to embed the sensor in the floor surface so it is at the same level as the heating cables.

#### 4) Connect the Econo Input (optional)

Insert the cable (use an 18 to 22 gauge flexible wirecable) into one of the two holes available below the terminal board.

Connect the wire ends (no polarity) to terminals 1 and 2 of the power base and to the CT240's auxiliary output or any output of the CT241.

The cable must run on the left side of the cavity located on top of the terminal board and outside the electrical box.



#### 5) Complete Installation

Push the excess wire (except for the sensor & econo) back into the electrical box to prevent interference with the thermostat and secure the base to the electrical box using the provided screws.

#### 6) Configure and Install the Control Module

Please refer to the control module user guide prior to mounting the control module on the base.

#### 7) Return Power to the Floor Heating System

Once installation is completed, return power to the floor heating system.

### TECHNICAL SPECIFICATIONS

**Models:** 120GA / 240GA

**Supply:** 120GA: 120 VAC, 60Hz, 1800 W  
240GA: 240 VAC, 60Hz, 3600 W

**Maximum load:** 15 A

**GFCI:** 5 mA

**Storage temperature:** -20°C to 50°C (-4°F to 120°F)

**Econo input:** requires a dry contact

**Size (H • L • W):** 124 x 70 x 23 mm (4.89 x 2.76 x 0.91 in)

**Certification:** CSA

### WARRANTY AND SERVICE

#### FLEXTHERM LIMITED WARRANTY

Flextherm Canada Inc. (hereinafter "FLEXTHERM") warrants to the purchaser that the FLEXTHERM PROGRAMMABLE THERMOSTAT (hereinafter the "Product") and once installed in conformity with the instructions of FLEXTHERM, shall be free of defects, in either materials or workmanship as described in this document.

**COVERAGE PERIOD:** This Limited Warranty becomes effective on the date of the original purchase of the Product as supplied by FLEXTHERM and shall remain effective for a period of one (1) year (twelve (12) consecutive months) from such date. This Limited Warranty is valid for products purchased and installed in Canada only.

**CONDITIONS:** This Limited Warranty is only applicable to new and unused Products purchased from FLEXTHERM, or its authorized re-sellers, provided the Installation Requirements contained herein are met. Claims made for coverage under this Limited Warranty must be addressed in writing, within seventy-two

(72) hours from an event giving rise to a claim, or the appearance of a defect, to: Flextherm Canada Inc. 1-800-353-9843. Any parts replaced under the terms of this Limited Warranty become the property of FLEXTHERM. Persons making claims for coverage must present FLEXTHERM with proof of purchase as well as any documents FLEXTHERM may require.

**WHAT FLEXTHERM WILL/WILL NOT DO:** FLEXTHERM's obligations under this Limited Warranty are limited to, at its sole discretion, repairing or replacing the thermostat originally supplied in the Product that FLEXTHERM has determined to be defective in materials or workmanship. FLEXTHERM shall replace the defective thermostat goods free of charge "ex works" after the originals have been returned to us postage/freight prepaid. Replacement will only be made for defective parts; and no allowance or reimbursement shall be made for wages, labour and freight costs. With respect to the parts not manufactured by ourselves, we shall only warrant for these to the same extent as our suppliers undertake a warranty obligation towards ourselves.

Because of our ongoing commitment to product quality and innovation, FLEXTHERM reserves the rights, at any time and without incurring any obligations, to revise, change, modify or discontinue any specifications, features, designs or components.

**INSTALLATION REQUIREMENTS:** In addition to the requirements included in the current FLEXTHERM Installation Guide, which is incorporated herein by this reference, the Product must be installed in accordance with accepted standards.

**WARNING:** Failure to install the Product in conformity with your local electrical Codes, as well as the Installation Guide, may cause fires. Failure to install the Product according to the directives in the installation guide may damage the cables/wiring and lead to Product failures, which are not covered under the Limited warranty.

**EXCLUSIONS, ARE NOT WARRANTED:** Failures resulting from improper installation; Damage caused by abuse, improper installation, repairs, service, maintenance and/or storage, modifications or use of parts not manufactured or supplied by FLEXTHERM; Damage caused by abuse or neglect; regarding the Product; Damage caused by water, submersion, accident, fire or any act of God; Incidental, consequential or other damages (including labor costs, towing, inconvenience, loss of time or loss of income).

#### LIMITATIONS OF LIABILITY:


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Neither FLEXTHERM re-sellers, installers or any other person is entitled or authorized to make any affirmation, representation or warranty other than those contained in this Limited Warranty. If the ownership of the Product is transferred during the Limited warranty Coverage period, the terms and conditions of the Limited Warranty shall apply to the new owner, provided the new owner has proof, satisfactory to FLEXTHERM, of the date of first purchase of the Product.

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