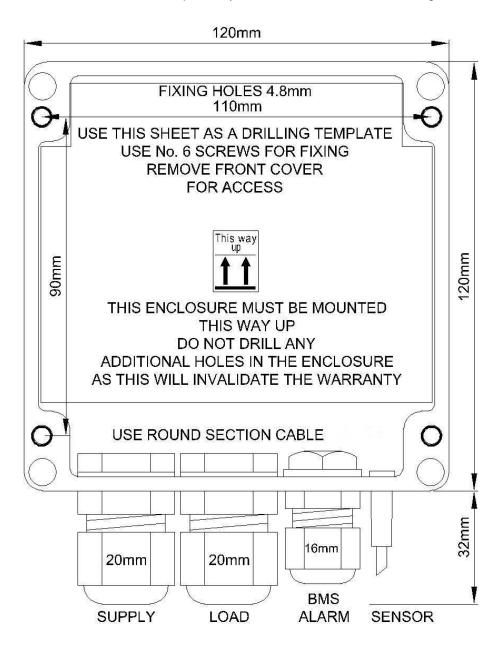
INSTALLATION MOUNTING

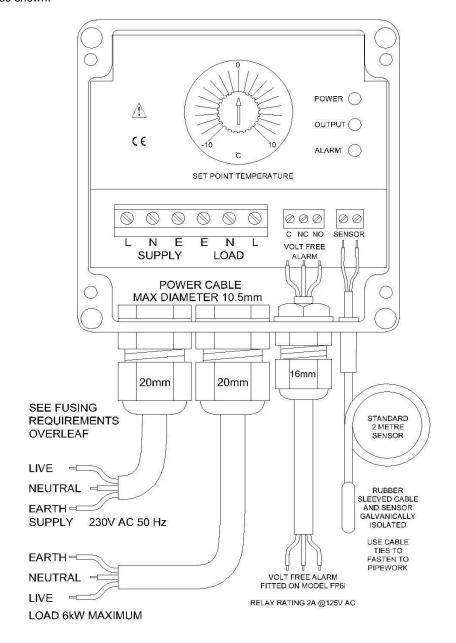
This is a fixing-hole template which may be used for securing the enclosure to the wall. NOTE: If mounted in the vertical plane they MUST be as shown to ensure IP rating.



INSTALLATION WIRING

Diagram shows the wiring connections and cable entry – FP6i shown. NOTE: the glands MUST be tightened to ensure the IP rating. The 'set point' control dial is

also shown.



SPECIFICATIONS (all models unless otherwise stated)

Supply voltage 230V ac +/- 10%

Supply frequency 50Hz

Power switching capacity 6kW max. Load current 25A max.

Temperature range -10℃ to +10℃ OR 0℃ to +20℃

Temperature accuracy 1℃
Current consumption 16mA
Soft start duration 1 second

Output and load fault detection Only on FP6i model (see ALARMS section for details)

Power and output LED indicators (see ALARMS section for details)

Supply terminal connections 0.2 to 6mm² rising clamp

Gland cable entry 10.5 & 8mm Ø (Note: cable MUST be round to ensure IP rating)

Ambient operating temperature -20°C to +40°C

Ingress protection (IP) rating IP65

Built in Sensor Encapsulated $10k\Omega$ NTC thermistor probe, 2m long

Sensor monitoring FP6E: open or short circuit - unit shuts down

FP6i: open or short circuit - unit shuts down and alarms

Sensor terminal connections 0.1 to 1.5mm² rising clamp

Sensor mounting

To secure to pipe etc., use appropriately sized nylon cable ties

Building Management System (BMS)

Alarm relay normally energised when system is 'healthy' (for FP6i)

Dimensions

Enclosure dimensions 120(W) x 120(L) x 65(H) mm

Fixing holes and centres 4 x 4.8mm Ø holes on fixing centres 110(W) x 90(L) mm

FUSING

It is recommended to use standard F-type quick-blow fuse or circuit breaker (MCB 'type 'B) rated at 30A Max. for 'in line' unit protection.

(See the SRA Datasheet for further information).

CE MARKING

This product family carries a "CE marking" and is RoHS compliant.

For further information, see the recommendations section or contact our sales desk. (See the Declaration of Conformity).

(See the Deciaration of Comornity

RECOMMENDATIONS

Other documents are available on request, which may be appropriate for your applications.

CODE IDENTITY DESCRIPTION

X10255 SRA Safety requirements - addressing the Low Voltage Directive (LVD)

including:-Thermal data/cooling; "Live" parts warning & Earth

requirements; Fusing recommendations.

P01.1 COS UAL Conditions of sale

NOTE: It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.T. (formally I.E.E.) regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding installation and safety of electrical equipment. Specific installers should refer to local and national regulations.

ORDER CODE:

State part number: ENVIROSTAT-FP6E-230V or FP6i-230V

NOTE: 110V model available on request



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RoHS Compliant



ENVIROSTAT 6kW RANGE FROST PROTECTION CONTROLLERS

FP6E/FP6i X10761

FEATURES & BENEFITS

- Simple setup and installation
- o Includes 2m long sensor
- Soft start function (gradual switch-on)
- o Built in encapsulated sensor
- Temperature range -10℃ to +10℃
- o IP65 Ingress protection
- Current capacity 25A max.
- Output & load fault detection
- o Power & output LED indicators
- BMS alarm FP6i only

Alternative Options available

o Temperature range 0 to 20℃



Picture shows Model FP6i

PRODUCT OVERVIEW

The ENVIROSTAT FP6E & FP6i are

electronic thermostats designed to give energy-efficient frost protection to pipe-work where thermal insulation alone cannot protect pipes from freezing or being damaged by ice. The units control heater tape or Infra-Red (IR) guartz lamps.

FP6E - Frost Protection 6kW – alarm indication temperature control functions.

FP6i - Frost Protection 6kW - additional BMS alarm features (see spec.).

PRODUCT SETUP

Connect the mains supply and load to the controller using the appropriate round section cable. Position the sensor to measure the air temperature where required or use cable ties to fix the sensor to a pipe etc.

OPERATION

Set the Set Point Temperature using the main knob.

When the ambient temperature drops below the set point temperature, the load output soft-starts for 1 second before the main output relay energises, the output LED will be lit. When the ambient temperature is equal to or greater than the set point temperature, the load output switches off and the output LED will be off.

ALARMS

The unit can detect an open-circuit or short-circuit temperature sensor. In addition to this, the unit tests the output immediately at power up and every four hours thereafter. The output will switch off momentarily during a test. Normal operation will resume once the test is complete. Alarm relay fitted to FP6i model (see specifications, BMS) .

The unit can detect the following faults:

- 1) Open-circuit/short-circuit temperature sensor.
- 2) Open-circuit load.
- 3) Short-circuit semi-conductor device or relay.
- 4) Open-circuit semi-conductor device or relay.

In all above cases, the alarm LED will flash.

For the temperature sensor alarm the rate is approximately one tenth of a second and for the output/load alarm the rate is approximately half a second.