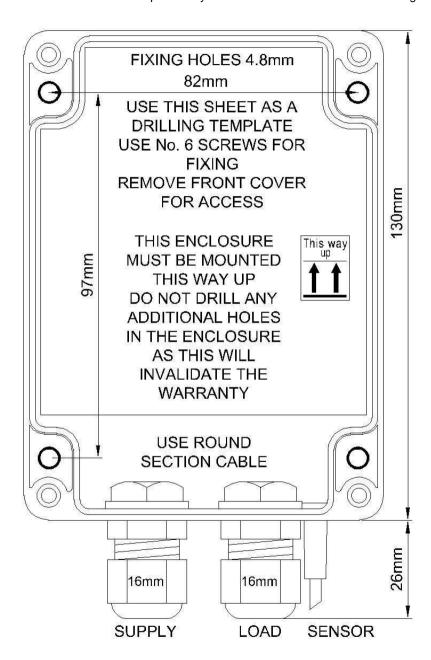
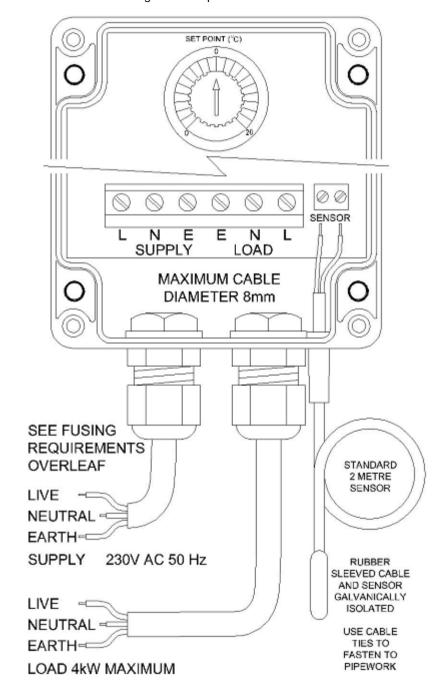
INSTALLATION MOUNTING

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 – 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
Power switching capacity
Load current
Legionella Cycle Time
Legionella Temperature Setting
Temperature range

50Hz
4kW Max.
20A Max.
7 day cycle
4 hours
7 to +20°C

Temperature accuracy
Current consumption
Soft start duration
Output & load fault detection
Power & status LED indicators

1 C
15mA
1 second
YES
YES

Supply terminal connections 0.2 to 6mm² Rising clamp

Gland cable entry 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 FP4i: 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

Enclosure dimensions 95(W) x130(L) x55((H) mm

Fixing hole & centre's 4x4.8mm Ø holes on fixing centres 97(W) x82(L) mm

FUSING

It is recommended to use standard F-type quick-blow fuse or circuit breaker (MCB 'type 'B'-rated at 20A Max.) for 'in line' unit protection. (See the SRA Datasheet for further information).

CE MARKING

This product family carries a "CE marking" and are RoHS compliant. For further information contact our sales desk. (See the Declaration of Conformity).

RECOMMENDATION

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.

AP02/4 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.E. Wiring Regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding safety of electrical equipment. (For International Standards refer to I.E.C. Directive I.E.C. 950).

ORDER CODE:

State part number: ENVIROSTAT-FP4iL-230V

NOTE: 110V model available on request

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RoHS Compliant

Directive

2002/95/EC





ENVIROSTAT 4kW RANGE FROST PROTECTION WITH BUILT IN LEGIONELLA FUNCTION CONTROLLER

FP4iL

X20070

FEATURES & BENEFITS

- Simple setup & installation
 - o Includes 2m long sensor
- Soft start function (gradual switch-on)
- Legionella Protection Cycle Timer
- Temperature range 0℃ to +20℃
- Solid state reliability
- Maintenance free
- IP65 Ingress protection
- o Current capacity 20A Max.
- o FP4iL
 - o Output & load fault detection
 - Power & status LED indicators

PRODUCT OVERVIEW

The **ENVIROSTAT** FP4iL is a



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 FP4iL has a built in feature were every 7 days the temperature with rise to 55°C for a period of 4 hours before returning to its original level. The units control heater tape or Infra-Red (IR) quartz lamps.

FP4iL - Frost Protection 4kW Indicator - additional features as above.

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 softstarts for 1 second before the main output relay energises. The status LED will be lit.

When the ambient temperature is equal to or greater than the set point temperature, the load output switches off. The status LED will be off.

ALARMS (For FP4i model only)

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. The unit can detect the following faults:

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