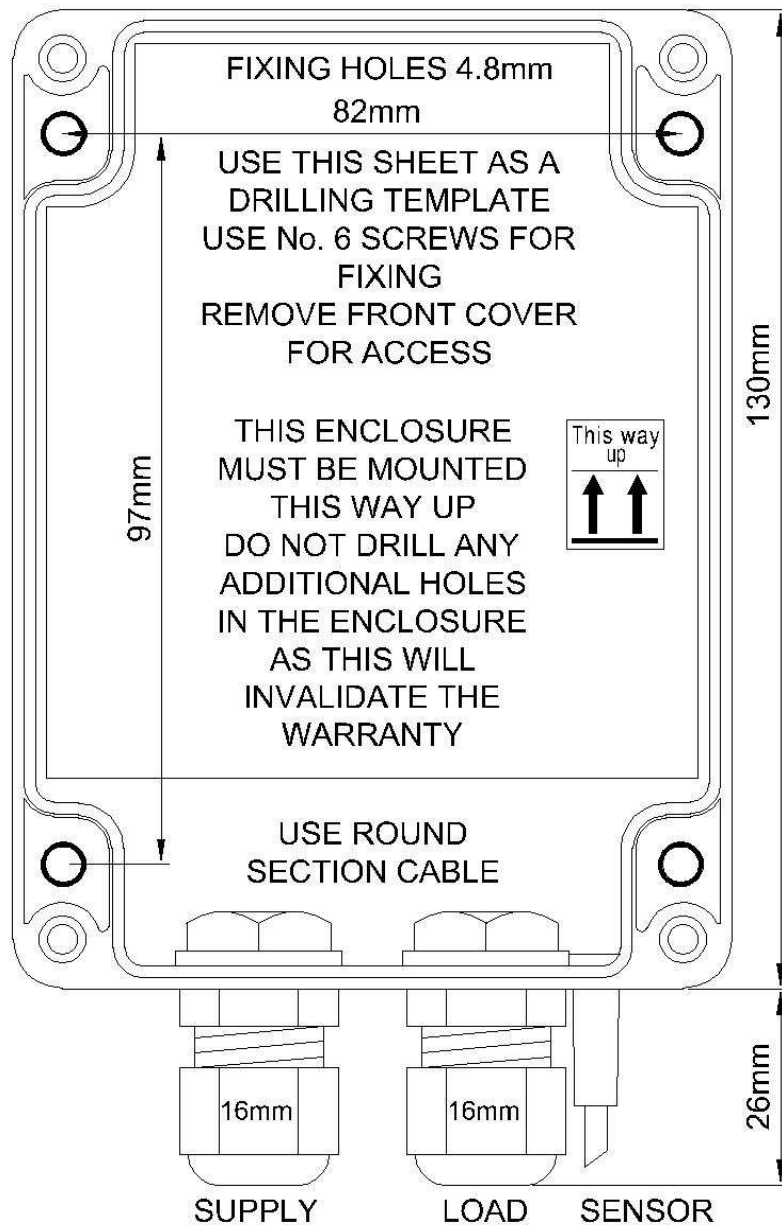


INSTALLATION MOUNTING

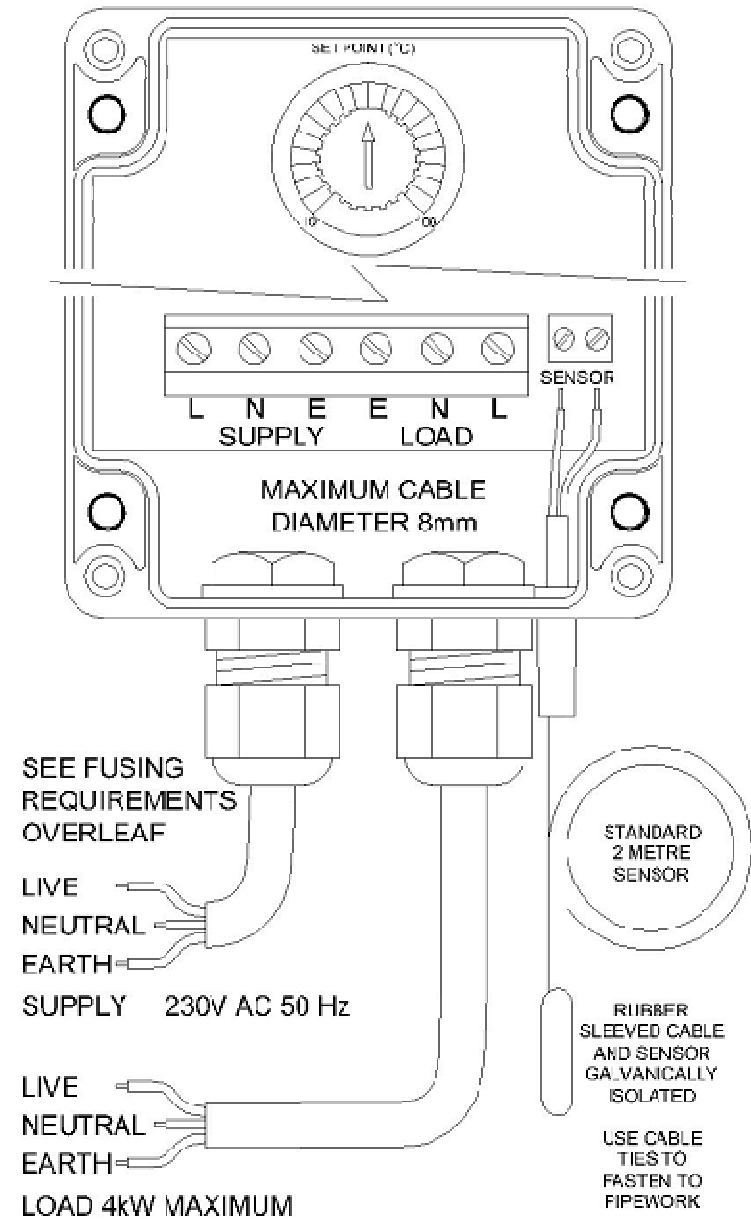
This is a fixing-hole template which may be used for securing the enclosure to the wall.

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	50Hz
Power switching capacity	4kW Max.
Load current	20A Max.
Temperature range	0°C to 80°C
Temperature accuracy	1°C
Current consumption	15mA
Soft start duration	1 second
Output & load fault detection	YES
Power & status LED indicators	YES
Supply terminal connections	0.2 to 6mm ² 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 10kΩ NTC thermistor probe, 2m long
Sensor monitoring	HC4i: open or short circuit - unit shuts down and alarms
Sensor terminal connections	0.1 to 1.5mm ² Rising clamp
Sensor mounting	To secure to pipe etc., use appropriately sized nylon cable ties

Dimensions

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 HC4i-230V**

NOTE: 110V model available on request



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UNITED AUTOMATION LIMITED



ENVIROSTAT HC4i 0-80°C 4kW RANGE TEMPERATURE CONTROLLER

HC4i

X20080

FEATURES & BENEFITS

- Simple setup & installation
 - Includes 2m long sensor
- Soft start function (gradual switch-on)
- Built in encapsulated sensor
- Temperature range 0°C to 80°C
- Solid state reliability
- Maintenance free
- IP65 Ingress protection
- Current capacity 20A Max.
- HC4i only
 - Output & load fault detection
 - Power & status LED indicators



Picture shows Model HC4i

PRODUCT OVERVIEW

The **ENVIROSTAT HC4i** are electronic thermostats designed to give energy-efficient temperature control to pipe work. The units control heater tape or Infra-Red (IR) quartz lamps.

HC4i – Temperature Controller 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 soft-starts 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 HC4i 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.