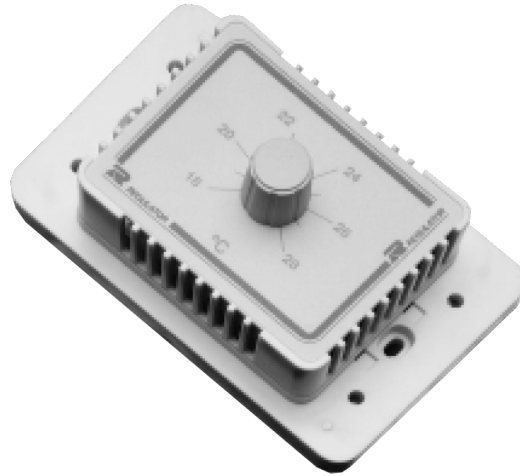




Regulator Systems

MANUFACTURER OF AIR CONDITIONING CONTROLS AND INSTRUMENTATION

TR2104 / TR2114 / TR4114 SENSOR/SETPOINT UNITS



DESCRIPTION

The TR2104, TR2114 and TR4114 units combine a remote setpoint with a temperature sensor. The setpoint range is 18-28°C. This provides the convenience of reduced wiring, and having the setpoint at a suitable location. Both units feature our standard thermistor temperature sensor mounted in specially designed vented enclosure.

The TR2104 has a concealed setpoint, which becomes accessible when the surround is removed. A small screwdriver is required to adjust the setpoint. The TR2114 AND TR4114 have an exposed setpoint with knob located in the centre of the front panel which provides an easy adjustment for the user. The TR4114 has a 4000 ohm temperature sensor for use in averaging applications.

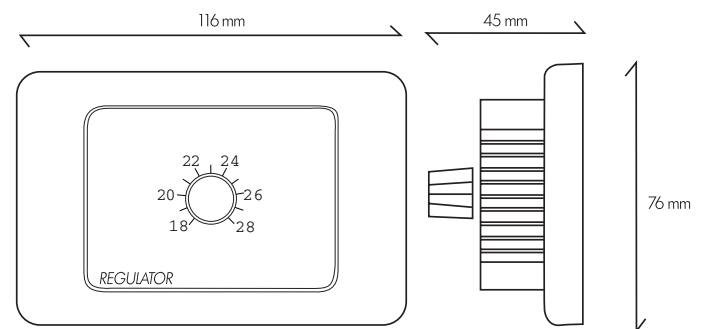
TECHNICAL DATA

Sensor - TR2104 & TR2114	NTC Thermistor
	2 K ohms @ 25° C
Sensor - TR4114	NTC Thermistor
	4 K ohms @ 25° C
Sensor accuracy	+/- 0.3°C over 0 - 70°C
Setpoint Range	TR 2104, TR2114 and TR4114 18 - 28°C
Setpoint Resistance	TR 2104, TR2114 and TR4114 3.6 K to 5.6 K ohms
Voltage output with 0.5 mA constant current source	1.8 to 2.8 vdc
Maximum connection cable	500 m with 1.00 mm ² Cu
	Use shielded cable if run with power cables.
	Maximum connection length reduced to 250m.
	Suitable for all Regulator Controllers except ET4 and SYSTEM 80.

INSTALLATION

To ensure the thermistor is not influenced by any external thermal activity, considerable care should be taken when determining the location to obtain a representative temperature of the area. The unit should preferably be located on an internal wall, approximately 1.5 metres above the floor. Care should be taken to avoid concealed heater pipes, air ducts, heat sources such as lights, copiers, computers etc, locations that are exposed to direct sunlight or areas directly affected by the supply air stream. Corner locations should be avoided because of reduced air circulation.

DIMENSIONS



CONNECTION DIAGRAM

