

PROJECT

Design, Manufacture and Supply of Digital Electronic Thermostat for the XPT Train

CLIENT

RailCorp

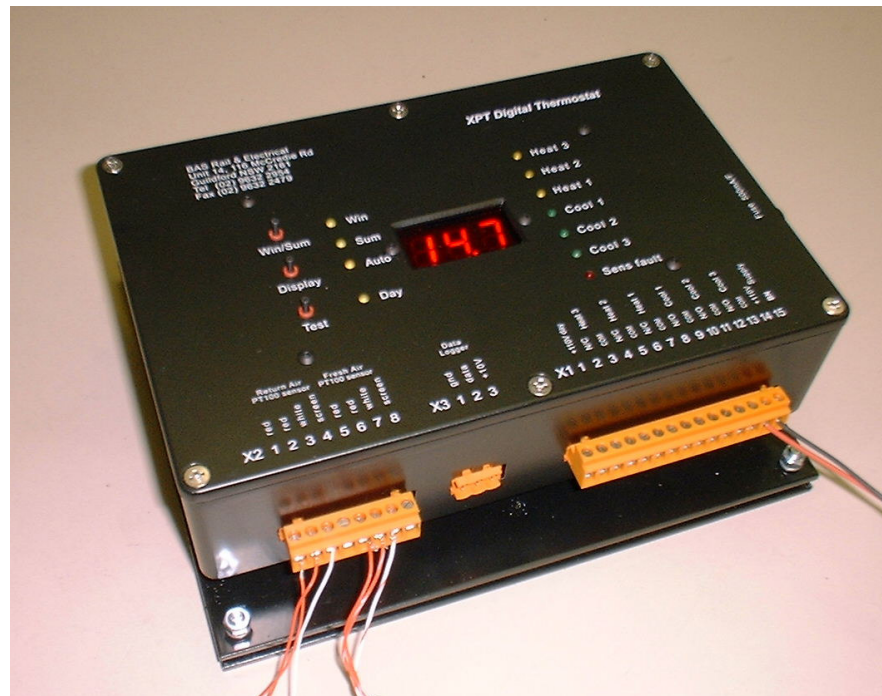
CLIENT CONTACT

Derek Osborn

DATE

2003-2005

EQUIPMENT



SPECIFICATION

Due to the unreliability and difficulty/cost of the existing mercury column thermostat for the A/C plant in the XPT trailer cars, BAS Rail & Electrical was asked if we could provide a replacement. The new thermostat should as much as possible emulate the existing one.

FEATURES

- The thermostat is microcontroller based with a separate 10 bit A/D converter.
- Both return air as well as fresh air temperatures are measured by PT100 sensors.
- The thermostat has a special feature to slightly modify the temperature setpoint for very cold fresh air and a special setting to increase the temperature during the night (hooked up to the light relay).

OUTCOME

67 thermostats were supplied over a period of two years and they have all worked to the customer's full satisfaction.