

# Temperature °C Controls Pty Ltd

Specialists in Industrial Temperature Measurement



Over temperature protection systems for electric motors, generators and transformers



Temperature protection of HV & MV Dry type and cast resin transformers



Temperature protection systems for MV electric Motors and machines

Temperature Controls and TecSystem have over 60 years of combined experience in providing solutions to the electrical instrumentation and process control industries with high quality temperature measurement products.



Your partners in  
Temperature protection

## Model T154

Temperature control of MV dry type and cast resin transformers



Electronic microprocessor based unit for the temperature control of MV dry type and cast resin transformers. Developed with a new layout and the advantage of the new technology platform incorporating dual display and microprocessor control.

The T154 unit ensures high levels of protection from electromagnetic interferences and ease of use have made it the industry standard for this application. The T154 accepts four PT100 ohm RTD sensors; 3 phase transformer and optional fourth for the transformer core or ambient temperature.

- Universal power supply 24 to 240 V AC/DC
- Fan ventilation system start signal
- Alarm, trip & fault condition relay contact outputs
- Download product catalogue: [CAT T154](#)

## Model NT935

Temperature control of MV dry type and cast resin transformers



Electronic microprocessor based unit for the temperature control of MV dry type and cast resin transformers. Developed with a new layout and the advantage of the new technology platform incorporating dual display and microprocessor control.

The NT935 unit ensures high levels of protection from electromagnetic interferences and ease of use have made it the industry standard for this application. The TNT935 accepts four PT100 ohm RTD sensors; 3 phase transformer and optional fourth for the transformer core or ambient temperature.

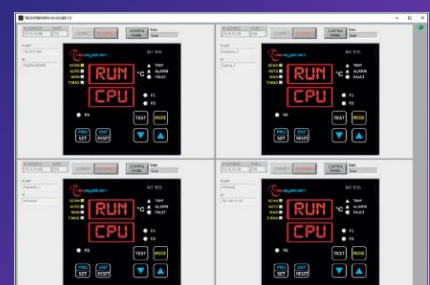
- Universal power supply 24 to 240 V AC/DC
  - Fan ventilation system 2 x on/off threshold relays
  - Alarm, trip & fault condition relay contact outputs
  - Download product catalogue: [CAT NT935 AD](#)
- Optional Models available
- NT935AD with Modbus RTU RS485 & 4-20mA output
  - NT935ETH with integrated Ethernet port

## ETH Software Manager

The ETH software manager allows you to monitor, set and analyze the thermal operation of the electrical machinery you want to protect.

The use of the ETH software is ideal for electrical substations, power stations and industrial plants.

Download product catalogue: [CAT SOFTWARE](#)



## Model NT538

Temperature control of electric motors and MV dry/cast resin transformers



Electronic microprocessor based unit for the temperature control of electric motors and MV dry type and cast resin transformers. Developed with a new layout and the advantage of the new technology platform incorporating dual display and microprocessor control.

The NT538 unit ensures high levels of protection from electromagnetic interferences and ease of use have made it the industry standard for this application. The NT538 accepts 8 PT100 ohm RTD sensors with individual set points per sensor.

The unit incorporates automatic channel scanning, hottest channel and manual channel selection

- Universal power supply 24 to 240 V AC/DC
- Fan ventilation system 2 x on/off threshold relays

- Alarm, trip & fault condition relay contact outputs
- Download product catalogue: [CAT NT538 AD](#)

Optional Models available

- NT538AD with Modbus RTU RS485 & 4-20mA output
- NT538ETH with integrated Ethernet port output

## Model MM453

Temperature monitoring of diesel and biogas generators



A complete unit for controlling the temperature of diesel and biogas generators. The MM453 is designed to monitor the bearings, exhaust gas, lubricating oil and coolant.

A large alphanumeric LCD display allows the user to easily read operating parameters.

A highly flexible configuration allows customized control of all sorts of applications. The MM453 can be configured up to 24 sensor inputs and the alarm and trip signals can be routed to two separate banks of relays.

- Universal power supply 24 to 240 V AC/DC
- 20 character LCD display
- Range -40/240°C
- Automatic channel scanning

- PT100, PT1000 & type K sensor input
- 5 x output relays
- 6 x LED relay status indicators
- Download product catalogue: [CAT MM453 AD](#)

Optional Models available

- MM453AD with Modbus RTU RS485 & 4-20mA output

The models shown represent the popular units supplied and installed throughout Australia. A number of these units are held in stock at our head office (NSW) warehouse. For full details on the complete TecSystem range of temperature protection monitors and accessories, please visit

[www.tecsystem.it](http://www.tecsystem.it)

## Model VRT200

### Ventilation fan controller



The ventilation system fitted to the transformer allows it to withstand higher loads and maintain optimal temperatures. The VRT 200 accepts

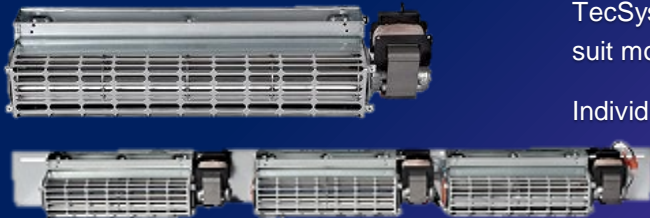
- 2 x PTC temperature inputs
- Enable remote control input
- 1 x alarm and fault relay
- 2 x motor control relays

The VRT200 allows combined control of the transformer cooling fans and any ventilation extraction system used for the control room.

Download product catalogue: [CAT VTR200](#)

## Cooling Fans

### Temperature control of MV dry type and cast resin transformers



TecSystem are able to offer a complete range of cooling fans to suit most transformers.

Individual fan modules are available, or the Barra series where the fans are located on a mounting bar to make installation and service easy.

Download product catalogue: [CAT TG FAN SERIES](#)  
[CAT BAR FANS](#)

## Temperature Sensors

### RTD PT100 ohm 3 wire assemblies

#### PTSE Series

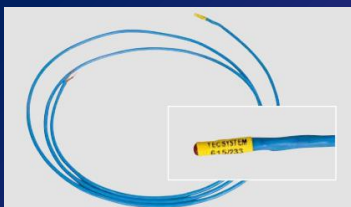
3 wire PT 100 ohm up to 200°C operation

Flexible silicon rubber cable

Tested 5KV AC for 60 minutes

Length 2500mm standard

Download product catalogue: [CAT SENSORS](#)



#### PTFE series

3 wire PT100 ohm up to 220°C operation

Flexible Teflon cable with 10mm x 120mm probe

Tested 30KV AC for 60 minutes

Length 2500mm standard

Download product catalogue: [CAT SENSORS](#)



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