

TC312

DUAL ALARM CONTROLLER

FEATURES

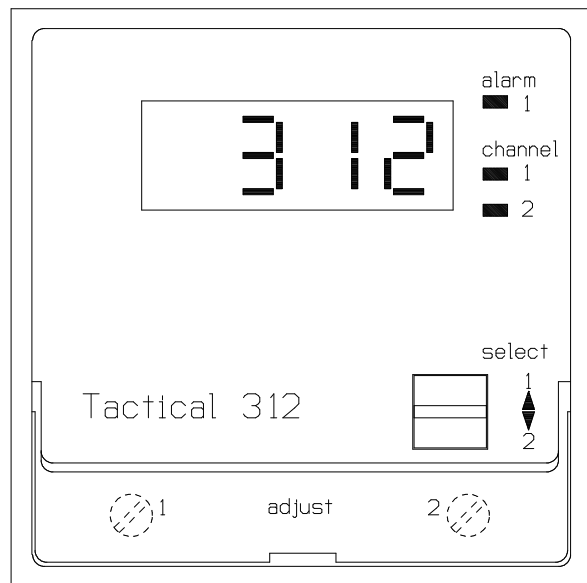
- High accuracy, low cost.
- Large clear green digital display.
- Wide range thermocouple and RTD inputs.
- Sensor fail indication.
- Clear indication of alarm output.

DESCRIPTION

High accuracy dual alarm settings and digital display of a process temperature are features of the TC312 temperature alarm controller from Tactical Controls.

Independent full scale alarm settings are provided and alarm alert status is indicated by a flashing LED. Precise, individual set point adjustments, within one digit, are made by means of concealed multi-turn preset controls. Access to these is via a front panel door to ensure security of settings, of particular importance in industrial applications.

A fascia mounted three position switch selects display of either the alarm settings or the process temperature.



Alarm switching is provided by internal 5A relay contacts.

Platinum resistance thermometer, thermocouple and linear (process) ranges are available to suit a wide spectrum of applications. Thermocouple versions feature automatic cold junction compensation and a choice of upscale or downscale sensor burnout protection is offered.

ELECTRICAL SPECIFICATION

Input

Thermocouple standard	ASTM E230 (1972), BS4937(1973), DIN43710
Cold junction compensation	Automatic.
Thermocouple break	Upscale as standard, display shows “.”.
Resistance thermometer 2 or 3 wires	Any load resistance error reduced by using 3 wires.
RTD (PT100)	BS1904, DIN43760.

Alarm outputs

Relay	5A resistive at 230Vrms.
Alarm alert	Indicated by a LED flashing at 0.5s intervals.
Alarm span	Adjustable from 0% to 100% of span
Alarm setting stability	Better than 0.01% of span/ °C of ambient change within 0 to 50 °C.

Alarm hysteresis band +/- 2 °C.

Environmental

Operating temperature	0 to 50 °C
Supply voltage	115/230V +/-15% 50/60Hz 100/200V +10/-15% 50/60Hz..
Power consumption	6VA maximum.

Performance

Indication accuracy	Better than 0.5% of span +/- 1 digit.
Supply voltage variation	Negligible effect.

General

Display digit	3 (or 3 1/4) digit 7 segment with negative sign display.
Digit size	13mm height x 7.4mm width.
Dimensions	96x96x190mm.
Mounting cutout dimensions	92x92mm.
Weight	1Kg max.

