

ADT151-HCT Trip Amplifier

- Suitable for any AC current Inputs.
- Supply voltage: 24Vdc / 115Vac / 230Vac
- Amelec standard 2 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

APPLICATION

- Motor / Heating element current monitoring.
- High / Low Current switch

TECHNICAL SPECIFICATION

FUNCTION

Trip = Input < Set point (Low trip)
Trip = Input > Set point (High Trip)

INPUT

Current can be specified in the range of:
30A, 50A, 100A
Other intermediate ranges available on request.
Frequency: 50Hz nominal, other ranges available.
Calibration Range: 5 to 100% / Average RMS

OUTPUT

1 x SPCO contacts, rated at 250VAC, 2A, 100VA
resistive.
(Relay Normally Energise, De-energised on trip)

CONTROLS

Zero / Span: 15 turn potentiometer to set internal input
reference (Factory set).
Trip 1: 15 turn potentiometer to set trip point in the range
of 0 to 110%. Trip setpoint can be monitored across
terminals 3 and 4 using DVM. 0 - 1V represent 0 -100%
input range.

INDICATOR

Power ON: LED, Amber.
Relay status: LED, Red. Energised = Trip/Alarm

PERFORMANCE

Accuracy: < 0.5%
Trip settability: better than $\pm 0.5\%$
Trip repeatability: better than $\pm 0.5\%$
Response time: Typically < 400mS
Dead band: Typically < 3%
Power consumption: <3VA

PROTECTION

Isolation 1000V RMS. Inputs/Contacts/Supply/Earth
Internal Fuse.
Failsafe Relay loss of power
Input over range up to typically 200%.

ENVIRONMENTAL CONDITION

Storage temperature: - 40 to +70 °C
Operating Ambient: -15 to +55 °C
Relative Humidity: 5 to 95% RH

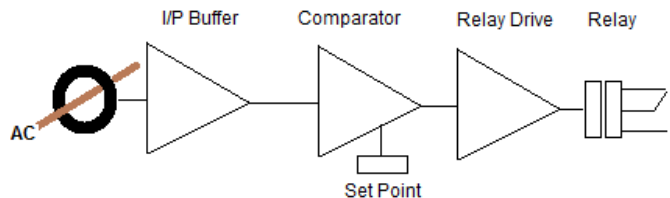
TERMINATION

	1
	2
Setpoint Ref +	3
Setpoint Ref -	4
	5
	6
RL1b-NC	7
RL1b-COM	8
RL1b-NO	9
Earth	10
Live	11
Neutral	12

FRONT VIEW



FUNCTION BLOCK DIAGRAM



CALIBRATION/SETTING UP

Units is supplied fully calibrated to specified input range

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 110d
Mounting: Din rail / Surface (optional Panel Mount)
Weight < 300g

ADD ON / OPTIONS

P: Test point (Trip set point monitoring)
K: RFI protection to IEC61000-4-3
Non standard Power supply ranges available

ORDERING CODE

ADT151X- (I/P) – (Function) – (Supply)
E.g. ADT151X – 30A – HI - 230Vac