

ADT151X 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.

TECHNICAL SPECIFICATION

FUNCTION

Trip = Input < Set point (Low trip)

Trip = Input > Set point (High Trip)

INPUT

From Amelec ASC-100 CT

(See datasheet for ASC100-1 for further details).

Frequency: 50Hz nominal, other ranges available.

Calibration Range: 5 to 100% / Average RMS

OUTPUT

1 x SPCO contacts, rated at 250VAC, 10A, 3000VA 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 2 and 3 using DVM. 0 - 1V represent 0 -100% input range.

INDICATOR

Power ON: LED, Amber.

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

PERFORMANCE

Accuracy: < 1%

Trip settability: better than $\pm 1\%$

Trip repeatability: better than $\pm 1\%$

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

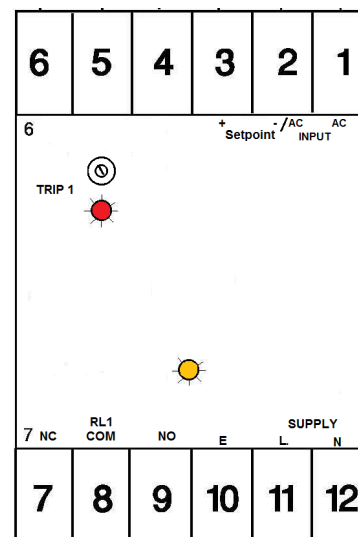
Operating Ambient: -15 to +55 °C

Relative Humidity: 5 to 95% RH

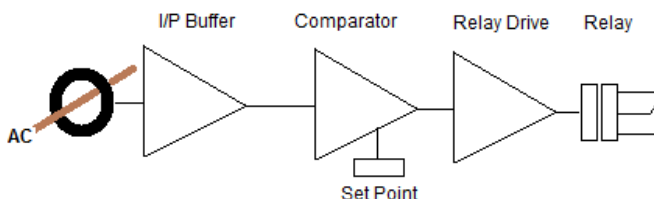
TERMINATION

AC	1
SP Ref - / AC	2
Setpoint Ref +	3
	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

J : Input injection jack socket

P: Test point (Trip set point monitoring)

K: RFI protection to IEC801-3

Non standard Power supply ranges available

ORDERING CODE

ADT151X- (I/P) – (Function) – (Supply)

E.g. ADT151X – 30A – HI - 230Vac

