

ADT132DIKTX Process Trip Amplifier with Display & Time Delay

- Suitable for any process input
- Supply voltage: 24V or 48Vdc $\pm 10\%$
- Amelec standard 10 year warranty
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)
- RFI Protection to IEC61000-4-3 (20 to 1000MHz, $\leq 10\text{V/metre}$)

APPLICATION

Any application where process input is required to be monitored and raise alarm if the input rises or falls more than the set point.

TECHNICAL SPECIFICATION

FUNCTION

Trip = Input < Set point (Low trip)

Trip = Input > Set point (High Trip)

Any combination of High/Low can be specified.

INPUT

DC current / voltage can be specified in the range of:

Current up to 100mA max (Passive)

Voltage 0.4 to 100V max

Typical input: 4 – 20mA (Passive)

OUTPUT

1 x SPCO contacts per trip, rated at 250VAC, 2A, 100VA resistive.

CONTROLS

Zero / Span: 15 turn potentiometer to set internal input reference (Factory set).

Trip 1 & 2: 15 turn potentiometer to set trip point in the range of 0 to 110%.

Time 1 & 2: 15 turn potentiometer to set trip time delay in the range of 1 to 10sec. Up to 60 second can be specified.

INDICATOR

Power ON: LED, Amber.

Relay status: LED, Red.

Display of I/P signal on a 3.5 / 4.5 digit LED. Front facia toggle switch shows the trip set points. Any engineering units can be specified in the range of: -19999 to +19999.

PERFORMANCE

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

Trip repeatability: better than $\pm 0.1\%$

Response time: Typically < 400ms

Dead band: Typically < 1%

Supply consumption: < 2VA

PROTECTION

Isolation 500Vdc. Input/Contacts/Supply/Earth
Internal Fuse.

Failsafe Relay loss of power

Input over range up to typically 300%

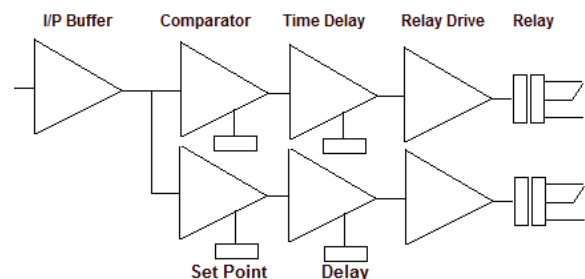
TERMINATION

I/P +	1
I/P -	2
	3
RL1-NC	4
RL1-COM	5
RL1-NO	6
RL2-NC	7
RL2-COM	8
RL2-NO	9
Earth	10
Live / +	11
Neutral / -	12

FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIRONMENTAL CONDITION

Storage temperature: - 40 to +70 °C

Operating Ambient: -15 to +55 °C

Relative Humidity: 5 to 95% RH

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 182d

Mounting: Din rail / Surface (optional Panel Mount)

Weight < 300g

ADD ON / OPTIONS

J : Input injection jack socket

P: Test point (Trip set point monitoring)

Non standard Power supply ranges available