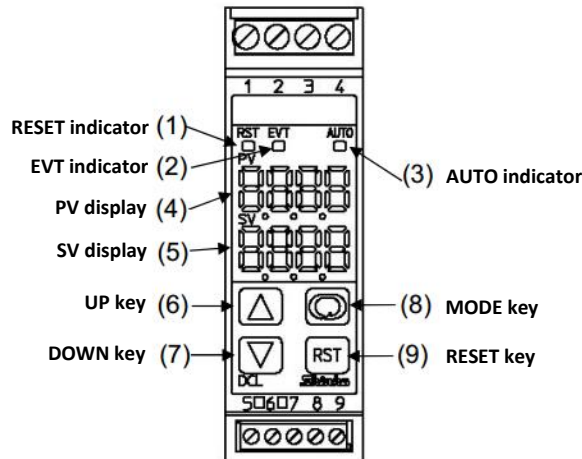


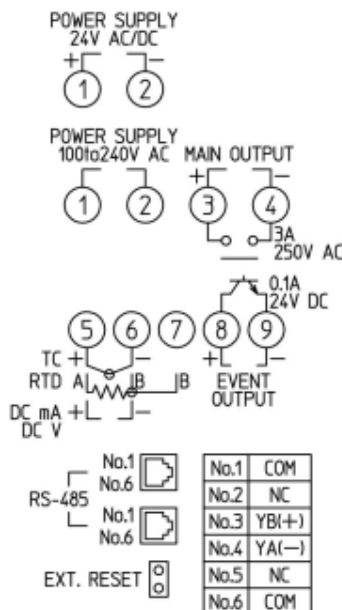
MODEL NO.: DCL-33A-R/M, T7887

Limit Controller

Function



- Display PV : Indicates PV
- SV : Indicates SV
- RESET : LED lights up when main output is ON
- AUTO : LED lights up during Auto start
- EVT : LED lights up when Event output is ON



- POWER SUPPLY : Power supply 100 to 240V AC or 24V AC/DC (-R/M, 1)
- MAIN OUTPUT : Control output
- TC : Thermocouple input
- RTD : Resistance temperature detector input
- DC : Direct current input, DC voltage input
- EVT : Event output
- RS-485 : Serial communication RS-485 (C5 option)
- EXT.RESET : External reset input (DI option)



ABN 966 501 901 83
TCA Quality Endorsed Company
ISO 9001 SAI Global Lic. QEC 14412

Temperature °Controls

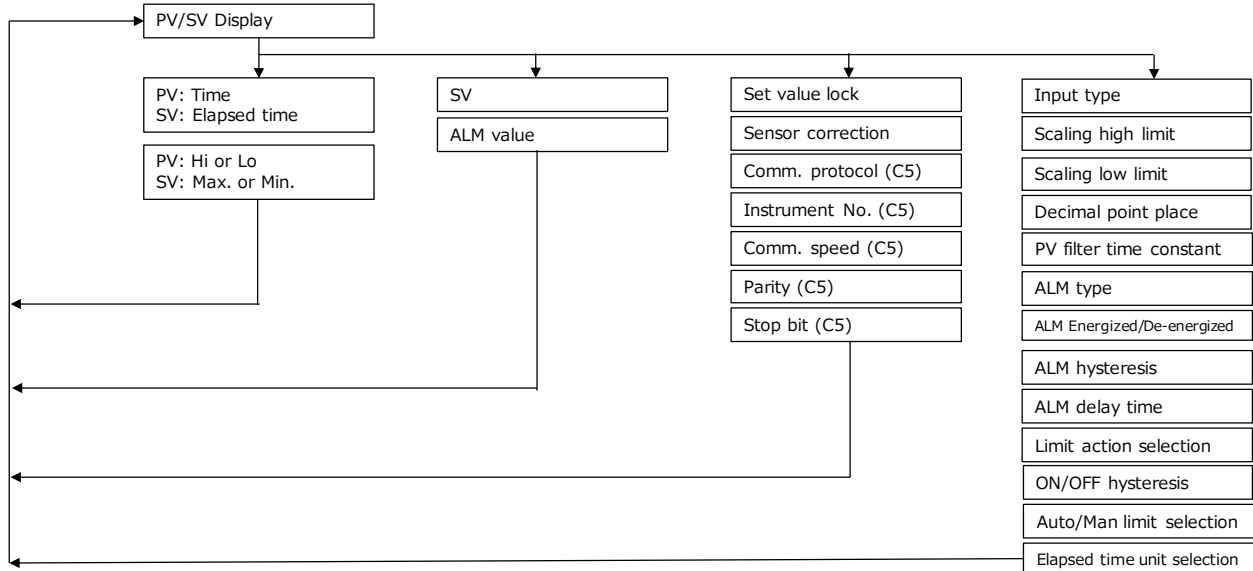
7 Yamma Street, Sefton NSW 2162
8/280 Whitehall St, Yarraville Vic 3013
36 121-125 Kerry Rd, Archerfield QLD 4108

61 2 9721 8644
61 3 9687 0000
61 7 3373 8424

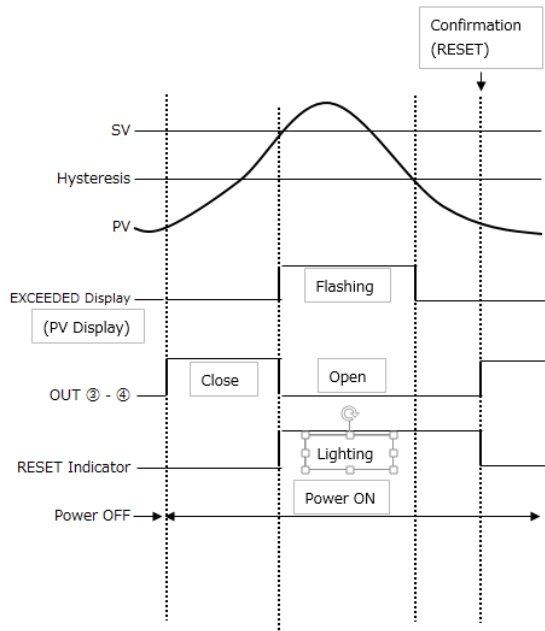
www.temperature.com.au
www.temperatureshop.com.au

sales@temperature.com.au

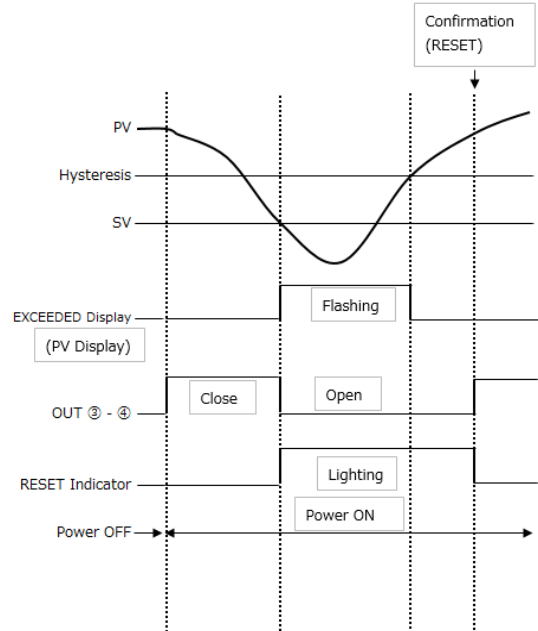
Operation Flow



DCL-33A-R/M, T7887
High limit action



DCL-33A-R/M, T7887
Low limit action





ABN 966 501 901 83
TCA Quality Endorsed Company
ISO 9001 SAI Global Lic. QEC 14412

Temperature °Controls

7 Yamma Street, Sefton NSW 2162
8/280 Whitehall St, Yarraville Vic 3013
36 121-125 Kerry Rd, Archerfield QLD 4108

61 2 9721 8644
61 3 9687 0000
61 7 3373 8424

www.temperature.com.au
www.temperatureshop.com.au

sales@temperature.com.au

Control Action

Manual limit action

In the following case, "Reset" requires because RESET indicator or something is lit

- When power is turned on
- When power is broken (instantaneous interruption)
- When the status becomes $PV \leq SV - \text{Hysteresis}$ in high limit action or $PV \geq SV + \text{Hysteresis}$ in low limit action after PV exceeds SV

Automatic limit action

When power is turned on or after power is broken (instantaneous interruption), AUTO indicator is lit and automatically starts limit action without reset.

Operational Functions and Attached Functions

Optional functions

Serial communication (Option code : C5)

Possible to do the following operation with external computer

- (1) Reading and setting main setting value or various setting values
- (2) Reading PV and the status of action
- (3) Chang functions

External reset input function (Option code : DI)

When RESET indicator is lit, possible to turn RESET indicator off with turning external contact on

Dedicated connector terminal Open OFF

Close ON

Attached functions

EXCEEDED Display (PV Display) flashing indicating elapsed time measurement

Possible to measure time when PV display flashes and indicate with mode key

Peak (Bottom) value hold function

While EXCEEDED display (PV display) flashes, possible to hold peak value with high limit action and bottom value with low limit action