

Manual of LT100 Tap Position Indicator

1. Summary

LT100 OLTC tap position indicator is applied for remote tap position indication of transformer OLTC. LT100 is for indoor application only.

2. Technical parameter

Power supply: AC220V±20%, AC230V±20%, AC240V±20%, 50/60HZ, DC110V, DC125V, selectable. **Please confirm when order.**

Position input signal: BCD

Position output signal: BCD

Position input and display range: 1-35 tap position

Position display method: 2 bit 1 inch LED

Operating temperature: -20℃~70℃

Operating humidity: less than 90% at 20℃

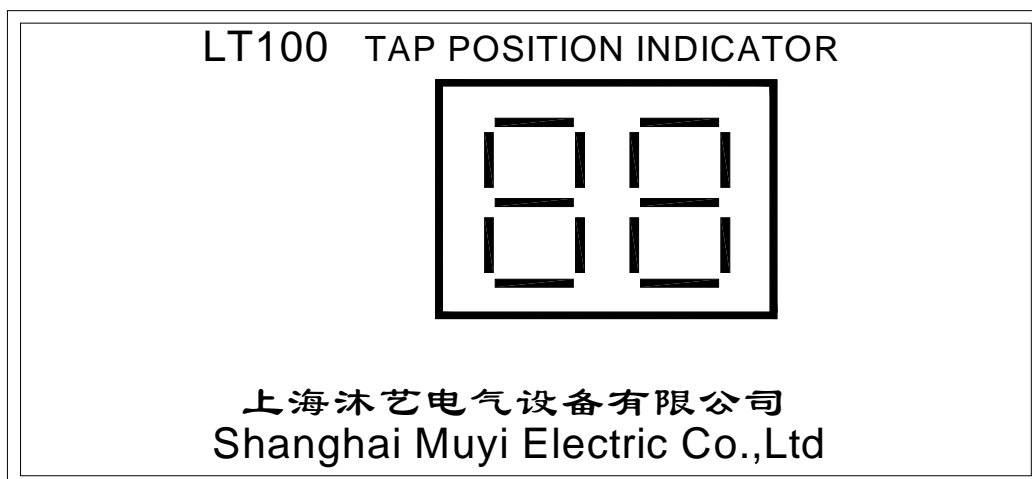
Overall dimensions:160(width)×80(height)×180(depth) (mm)

Net weight: 0.86Kg

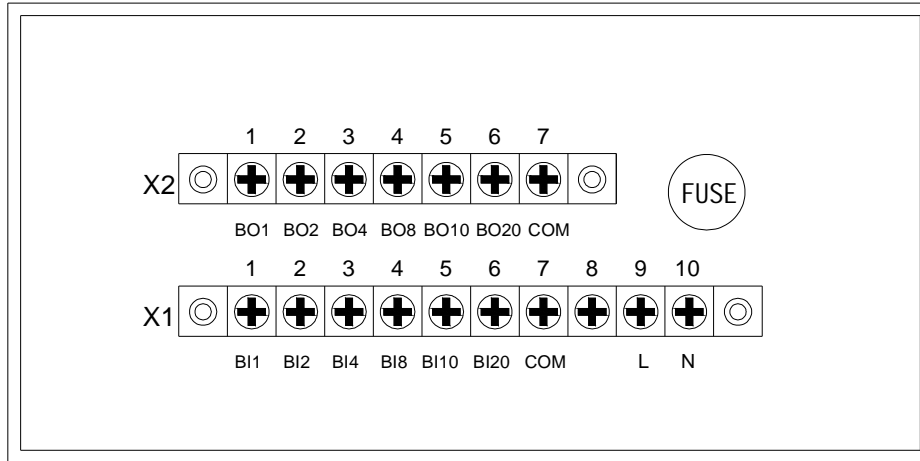
3. Working principle

OLTC tap position BCD signal from motor drive unit is connected to X1 terminal of LT100 rear panel, and then through insulated device it is transmitted to CPU for coding. The tap position is displayed by LED and outputted via BCD code.

4. The front and rear panel arrangement



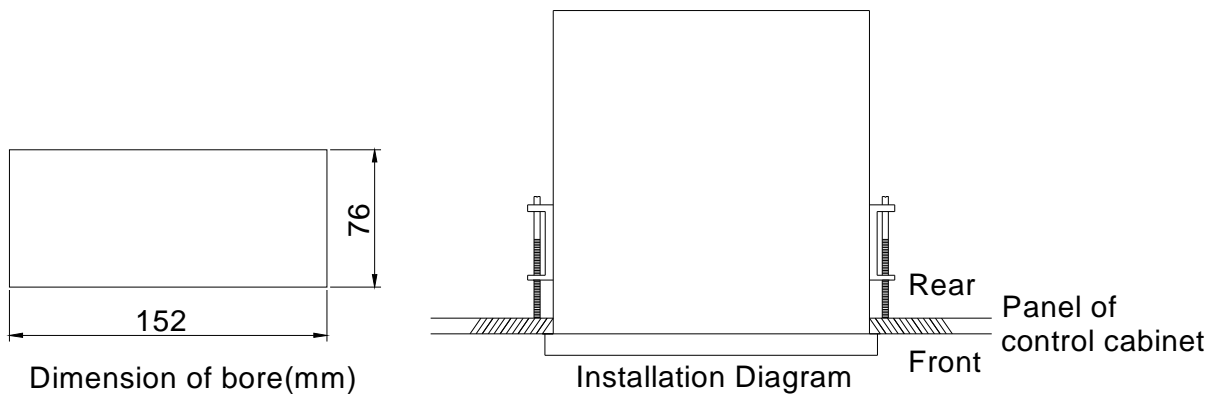
Front panel



Rear panel

5. Mounting method

LT100 is flush mounted on the control panel; please refer to below schematic drawing.



6. Wiring table

6.1. Power supply input

X1-9 and X1-10 is terminal for power supply, after connecting with power supply, the tap position indicator LED screen will be lighted and flashed if there is no tap position input, and when tap position signal is input, LED screen will have tap position display and keep lighting on status.

6.2. Wiring table

X1 wiring table

10 pins no.	Explanation	Remarks
1	Tap changer position signal input "BCD 1"	BI 1
2	Tap changer position signal input "BCD 2"	BI 2
3	Tap changer position signal input "BCD 4"	BI 4
4	Tap changer position signal input BCD 8"	BI 8
5	Tap changer position signal input "BCD 10"	BI 10
6	Tap changer position signal input "BCD 20"	BI 20
7	Tap changer position signal input COMMON	COM
8	N/A	
9	Power supply "L"	On request
10	Power supply "N"	

X2 wiring table

12 pins no.	Explanation	Remarks
1	Tap changer position BCD code signal output"1"	BO 1
2	Tap changer position BCD code signal output"2"	BO 2
3	Tap changer position BCD code signal output"4"	BO 4
4	Tap changer position BCD code signal output"8"	BO 8
5	Tap changer position BCD code signal output"10"	BO 10
6	Tap changer position BCD code signal output"20"	BO 20
7	Tap changer position BCD code signal output COMMON	COM