

CFL Series User Manual

Quick Start Guide



Please read this manual carefully before using product

1. Description

The CFL Series Continuous Float Level Transmitter utilizes a magnet located inside of the floating ball that closely follows the changes of the measured liquid level media. The magnet activates the divider circuit resistor located inside of the rod via a magnetic reed switch. The divider signal is then converted into a 4-20mA signal.

2. Technical Specification

1. Working pressure | Dependant on Material of Construction
2. Working temperature | Dependant on Material of Construction
3. Power supply of transmitter | 13-36V,
4. Output signal | 2 wires 4-20mA Loop Powered

3. Installation

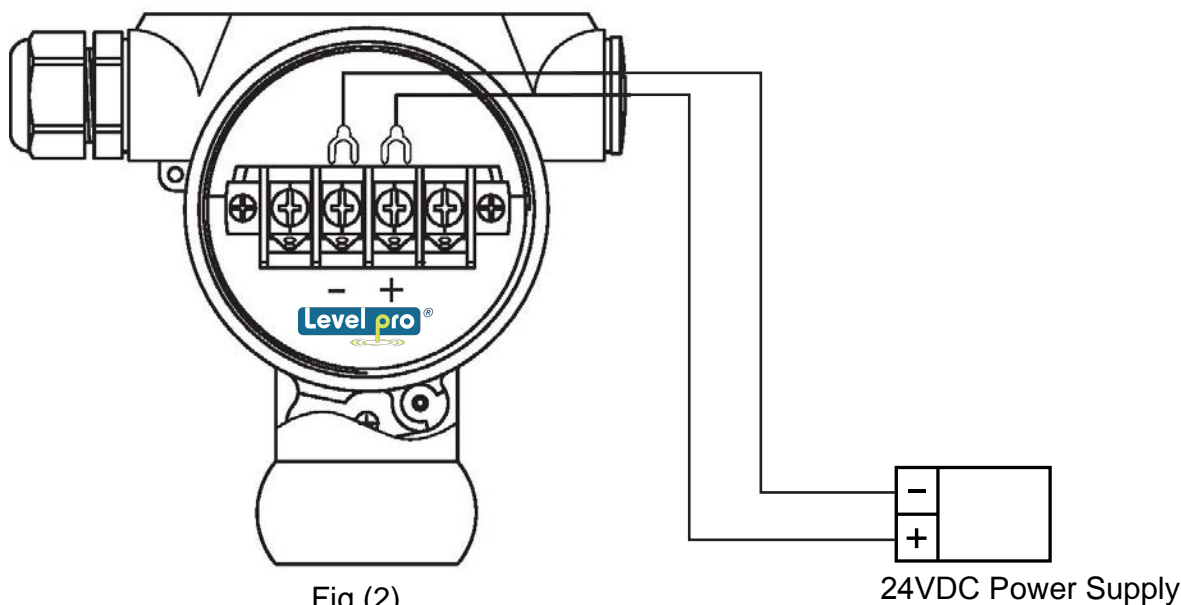
1. CFL Series level transmitter should be mounted on top on the tank.
2. Ensure the density of measuring medium is greater than the density of the float ball.
3. Level rising speed should be less than 3 in/s.
4. Avoid any magnetic field interference .
5. Please check cables and voltage

4. Wiring Connection

1. 2 wires wiring connection (picture 2)



Please Note voltage and polarity of power supply.



5. Wiring

1. Blind Junction Box or Local Display
2. The output is 2 wires marked as (+) (-) | Fig 2
3. Digital gauge must be with 24V DC power supply, 4-20mA input, if there is no 24VDC | Fig 3

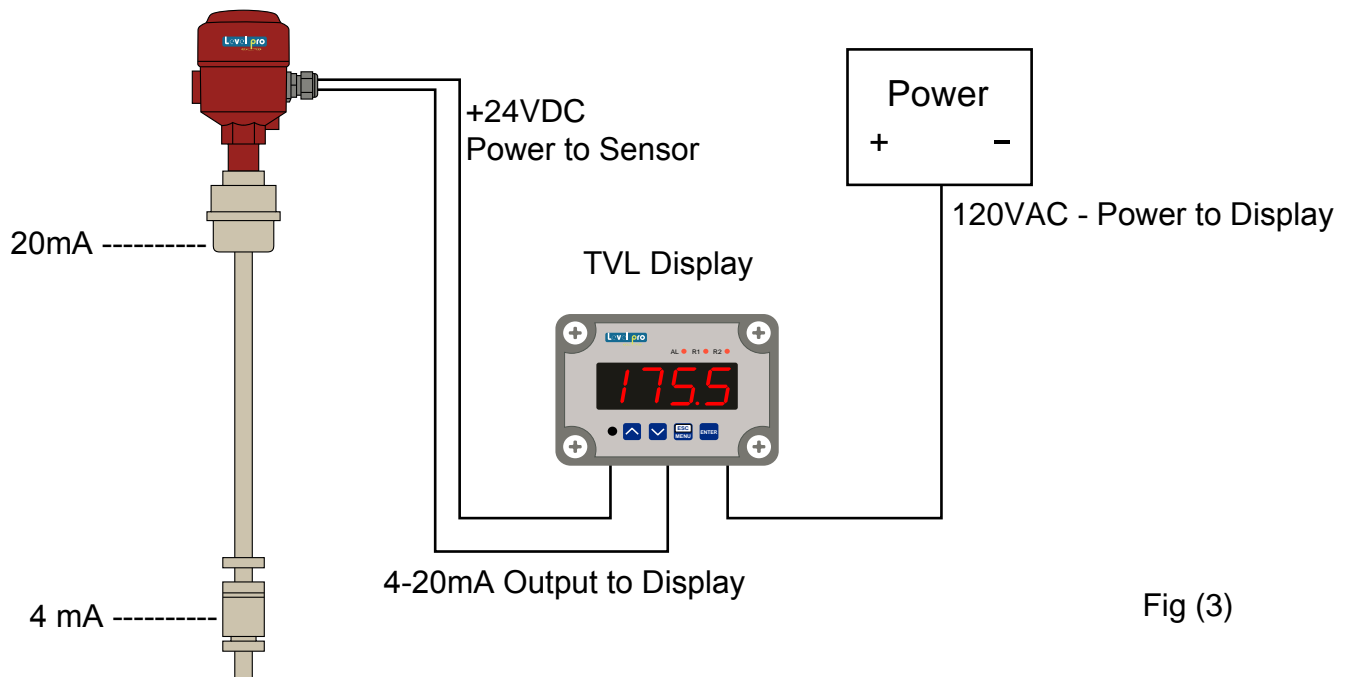


Fig (3)

6. CFL Series Models



7. Instruction of Installation

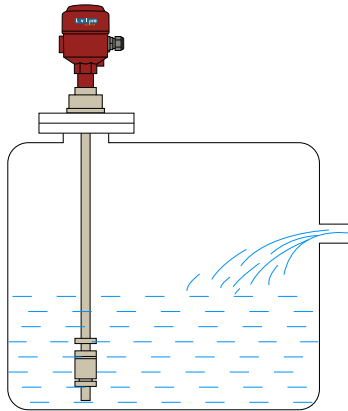


Fig (5)

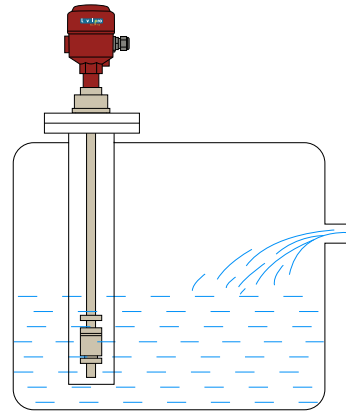


Fig (6)

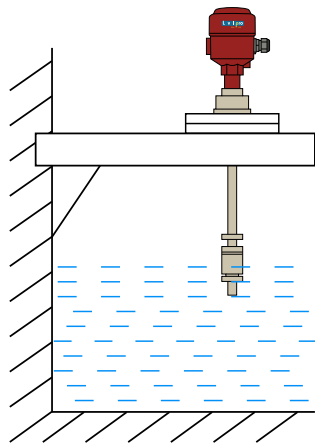


Fig (7)

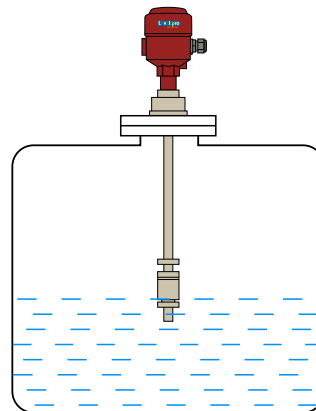


Fig (8)



IMPORTANT

1. Installation position should be mounted away from flow inlet | see Fig (5)
2. Excess Turbulence - Mount in Stillwell | see Fig (6)
3. If switch is installed on the wall of a tank a L type slotted-angle bracket should be installed. | see Fig (7) | Contact Icon Process Controls
4. Ensure the diameter of fitting is larger than the diameter of the float ball. | See Fig (8)
5. The density of measured medium should be greater than density of float ball
6. Ensure Liquid is Clean | Free of Particulate | Non-Sticky

8. TroubleShooting

NO.	Fault	Possible Cause	Action
1	No movement of Float	1. Density of medium is less than density of float ball	Recheck the density of float ball
		2. Float has a leak Cracked	Contact us to change the float ball
		3. Float ball is being obstructed	Clear any objects
2	Float ball moves, but there is no signal output.	1. Position offset	Adjust position of float ball
		2. Magnetic reed module is damaged.	Contact us
3	Signal output is not correct	Possible magnetic field surrounding float	Eliminate the magnetic field
4	Signal is constant	Float ball is unable to reset, and me be stuck .	Clear any objects
5	Signal output is not in compliance with actual value, but provides a linear output.	Position of buckle is moved.	Adjust the position of buckle to original place.



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Notes

ICON PROCESS CONTROLS

Corrosion-Free Liquid Process
Instrumentation Equipment

Flow

Level



Pressure



Temperature

