



NK Instruments Pvt. Ltd.



Process Control Instruments for Indication and Control of:

PRESSURE

VACCUM

DP

FLOW

VELOCITY

LEVEL

TEMPERATURE

CONDUCTIVITY

pH

VIBRATION

INSTRUCTION MANUAL

CABLE FLOAT LEVEL SWITCH



CONTACT DETAILS

B-501/504, 5th floor, Raunak Arcade, Near THC Hospital, Gokhale Road, Naupada, Thane(w) 400602. Maharashtra INDIA

● Telefax Nos.: 91-22-25301330 / 31 / 32

● Skype: nitinkelkarskype

● Gtalk: nkinstruments2006

E-Mail: sales@nkinstruments.com

Web: www.nkinstruments.com



Warning

Read all warnings and instructions before performing installation or maintenance. Safety glasses and gloves should be worn at all times when working with or examining water gauge glass and connections.

Danger

Improper installation or maintenance of gauge glass and connections can cause immediate or delayed breakage resulting in bodily injury and/or property damage.

Installation

Only properly trained personnel should install and maintain water gauge and connections. Remember to wear safety gloves and glasses during installation. Before installing, make sure all parts are free of chips and debris.

The Cable Float Switch is packed in separate pieces for protection during shipment. It is easy to assemble by following the guidelines in this manual. Upon unpacking, inspect all components for damage. Check the NK Instrument nameplate in the Gauge Housing Chamber to verify that the specifications of the Reflex Level Gauge are correct for the operating conditions. Contact NK Instruments if you have any questions or encounter any problems.

The number of different types of Welded Pad Liquid Level Gauges installations is infinite to adequately detail in an installation manual. It is therefore the user's responsibility to assure that the knowledgeable installation personnel plan and carry out installation in the safe manner. The following procedures are some of the installation guidelines that should be employed.

1. CAUTION

- Keep proper distance between installation position and inlet of water pump to prevent float.
- There should be a proper distance between installation position and inlet of water to prevent direct water impact. If it can't be avoided, please install pipe shield or plate shield.
- The float action length must be shorter than the distance between wall and cable, if not, it will cause wrong action.
- The lowest float level must be higher than the lowest water level of pump.

2. MOUNTING PROCEDURE

The Cable Float Level Switch may be mounted by using cable ties included with the unit, or by the optional cable weight which must be purchased separately.

Note: The recommended method of carrying the Cable Float Level Switch is by the cable. The unique moving ballast in the unit may cause it to unexpectedly flip out of the individual's hands.

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3. CABLETIE METHOD (STANDARD)

A pipe or other structure must be available in the tank to which the plastic cable tie may be affixed. Position the adjustable strain relief on the cable to allow one-half of the distance of the differential band between the end of this strain relief and the end of the strain relief on the float. Secure the cable to the structure with one cable tie at the midpoint of the strain relief. Secure the second cable tie to the structure at the top end of the adjustable strain relief, leaving approximately two inches (51mm) of free strain relief toward the float. Proceed to wire the unit.

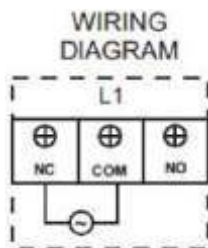
NOTE: Be sure that nothing in the tank prevents the full extension of the cable in either direction.

4. CABLE WEIGHT METHOD (OPTIONAL)

When an anchoring structure in the tank is not available, the cable weight method should be used. Position the adjustable strain relief on the cable to allow one-half the distances of the desired differential band between the mid-point of the adjustable strain relief on the float. Remove one of the screws in the clamp at the top of the weight. Loosen the second screw. Position the weight at the midpoint of the adjustable strain relief. Tighten both screws to secure the weight to the cable. Be sure the cable cannot be pulled through the adjustable strain relief. Lower the unit in the tank until the cable weight is positioned at the midpoint of the desired differential band. Secure the cable at the top of the tank. DO NOT secure the cable to any sharp object which could cut the cable. Proceed to wire the unit.

5. WIRING PROCEDURE

The Cable Float Level Switch may be wired for fill or empty pump control functions or as a high or low level alarm. Wire according to the terminal connection drawing below.



NOTE:

1. The unused wire (third wire) must be electrically insulated.
2. Do not fasten electrical cable on rough or sharp surfaces.
3. Use only one equipment with thermal overload protection.
4. Consult local codes for proper application.

FOR EMPTY PUMP CONTROL OR HIGH ALARM FUNCTIONS

Connect the NC and COM wires.

FOR FILL PUMP CONTROL OR LOW ALARM FUNCTIONS

Connect the NO and COM wires.

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Product Warranty

NK Instruments warrants its products as designed and manufactured by NK Instruments to be free of defects in material and workmanship for a period of one year after the date of installation or eighteen months after the date of manufacture, whichever is earlier. NK Instruments will, at its option, replace or repair any products which fail during the warranty period due to defective material or workmanship.

Prior to submitting any claim for warranty service, the owner must submit proof of purchase to NK Instruments and obtain written authorization to return the product. Thereafter, the product shall be returned to NK Instruments with freight prepaid. This warranty shall not apply if the product has been disassembled, tampered with, repaired or altered outside of the NK Instruments factory, or if it has been subjected to misuse, neglect or accident.

NK Instruments responsibility hereunder is limited to repairing or replacing the product at its expense. NK Instruments shall not be liable for loss, damage, or expenses directly or indirectly related to the installation or use of its products, or from any other cause or for consequential damages. It is expressly understood that NK Instruments is not responsible for damage or injury caused to other products, building, property or persons, by reason of the installation or use of its products.

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This document and the warranty contained herein may not be modified and no other warranty, expressed or implied, shall be made by or on behalf of NK Instruments unless modified or made in writing and signed by the Proprietor of NK Instruments.

Warning

Read all warnings and instructions before performing installation or maintenance. Safety glasses and gloves should be worn at all times when working with or examining water gauge glass and connections.

Danger

Improper installation or maintenance of gauge glass and connections can cause immediate or delayed breakage resulting in bodily injury and/or property damage.

USE And Care

- DONOT's
- DONOT use glass if it contains any scratches, chips, or any other visible signs of damage.
- DONOT reuse any glass packing.
- DONOT subject gauge glass to bending or torsional stresses.
- DONOT over-tighten glass packing nuts.
- DONOT allow glass to touch any metal parts.
- DONOT exceed the recommended pressure of the gauge or gauge glass.
- DONOT clean the gauge or gauge glass while pressurized or in operation.

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DO's

- DO verify proper gauge has been supplied.
- DO examine gauge and packing carefully for damage before installation.
- DO install protective guards and utilize automatic ball checks where necessary to help prevent injury in case of glass breakage.
- DO inspect the gauge daily, keep maintenance records, and conduct routine replacements.
- DO protect glass from sudden changes in temperatures such as drafts, water spray, etc.

Maintenance

- Examine the gauge regularly for any signs of clouding, scratching, erosion, or corrosion. This will help establish the routine inspection and routine replacement schedules.

Inspection

- Examine the surface of the gauge for scratches, corrosion, chips, cracks, surface flaws, or nicks.

Storing

- Keep the gauge in original packaging until ready to install.

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