



FLOW & CONTROL
System Pvt. Ltd.



**IN A CHANGING WORLD,
INNOVATION THAT SURVIVE**

PROCESS • CONTROL • INSTRUMENTS



PRODUCT CATALOGUE



• Mr. Tapan Jana

About...

FLOW & CONTROL System established in the year 2005 and since then it has been relentlessly working in various fields of Industrial Process Control Automation Industries Include:

- Level Sensing Automation
- Coal Based Power Plant
- Air or Water Pollution Solution
- Waste Water Plant Automation
- Steel Industries Automation
- Solid or Liquid Level Sensors, Rotameter, Flowmeter

Flow & Control System is an ISO 9001-2008 Certified Company, having its registered office situated at New Delhi and manufacturing unit at Faridabad, Haryana. We are backed up by a vibrant and dynamic Marketing Team capable to understand and deliver to the demand and plant requirements of our valuable clients.

A relentless after sales team adds to the strength of the organization and accounts for the never ending relationship which we share with our users.



Flow & Control System

Our mission is "to deliver globally, the best of quality products at the most economical rates within minimum lead time".





VIBRATING FORK LEVEL SWITCH

- Fast and Easy Installation. No Calibration.
- No effect of electrical properties of the Service material. High Reliability.
- Suitable for highly dusty environment.
- Field selectable operation logic.
- Can be configured either for High or Low Level point switching.
- Provides economical solutions.
- Various model not required.
- Reduces the Inventory cost.

FUNCTIONS

The electronically stimulated fork vibrates at its mechanically resonance frequency of 125 Hz when the fork is free of the service material. The resonance is caused by the piezoelectric crystals.

One of the piezo crystals produces a small voltage which is transmitted to the switching amplifier. If the fork is covered by the bulk material, a damping effect is produced and the piezo crystal does not produce the voltage and the amplifier will switch and a corresponding signal output is actuated. The vibration of the fork has self-cleaning properties. The light deposit on the container wall does not affect the operation of the **FC FORK**.

APPLICATIONS

- Building industry materials, cement, sand, lime, etc.
- Foodstuff industry, milk powder, flour, salt, foodgrains, etc.
- Plastic industry, powder, granular etc.
- Timber industry, chemical and mining etc.

FC FORK - 2000



MEASURING SYSTEM

The complete system, **FCFORK-HARP-2000 series**, consists of:-

The sensing probe of Vibrating Fork and The Electronic Switching unit.

STANDARD TECHNICAL SPECIFICATIONS

1 SWITCHING UNIT

- **Housing** : Aluminium, weather proof, powder coated. Integral with The probe/ suitable for back panel mounting.
- **Cable entry** : 2 nos. PG 16
- **Ambient temperature** : 0 ° C to +60° C
- **Power consumption** : 2 VA
- **Mains Voltage** : 230/110 V AC (+/-15%), 50Hz, or 18-55 V DC 65 to 265 V AC (Optional)
- **Switch status** : Green LED display shows Normal, Red LED shows alarm.

- **Output** :
 - a) 2 sets of potential free c/o contacts rated at 5 amps, 230 V AC for non- inductive loads.
 - b) PNP/NPN with DC Mains
- **Switching delay** : Continuously adjustable From 2 to 20 sec. probe Free or probe covered. (Optional)
- **Safety operation** : Field selected switch over for min. or max. (FSL/FSH) switching points.

2 FORK (SENSING PROBE)

- **Mounting** : Screwed – 1.½" BSP (standard) Or Flanged (optional).
- **Sense** : Fork, Stainless steel (SS 316).
- **Extension** : Pipe (SS 304).
- **Length** : a) 200 (standard) upto 3000 mm and as per application (rigid).
b) flexible, Wire probe.
- **Operating** : 150 deg for the Temp in integral switching vessel unit (standard) 200°C (on request).