

AQUAFORK POINT LEVEL SWITCH
AQUAFORK – SWIFT 7000



Split Electronic



Integral Electronic

SALIENT FEATURES:

- * **Fast and Easy Installation**
No Calibration.
- **No effect of electrical properties of the Service material.**
High Reliability.
- **Suitable for the 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.

MEASURING SYSTEM:

The complete system, AQUAFORK -7000... series, consists of:-

The sensing probe of Vibrating Fork and The Electronic Switching unit

FUNCTION:

The electronically stimulated fork vibrates at its mechanically resonance frequency of about 400 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 AQUAFORK**

PRIMARY AREA OF APPLICATION

All types of liquids.

**TECHNICAL SPECIFICATIONS (STADARD):
SWITCHING UNIT:**

Housing : Aluminum, weather proof, powder coated. Integral with The probe/
Cable entry : 2 nos.
Ambient temperature : 0°C to +60°C
Power consumption : 2 VA
Mains Voltage : 80 to 265 V AC , 50 Hz
or 24 V Dc
Output :1 sets of potential free c/o contacts rated at 5 amps, 230 V AC for non-inductive loads.
(OPTIONAL) Transitor output
Switching delay : Continuously adjustable From 2 to 20 sec. probe Free or probe covered.
Safety operation : Field selected switch over for min. or max. (FSL/FSH) switching points.
Switch status display :Green LED shows Normal, Red LED shows alarm.

FORK (SENSING PROBE):

Mounting : Screwed – 1 " BSP (standard)
Or Flanged (optional)
Sense : Fork, Stainless steel
Extension : Pipe
Length : 120 mm (standard) upto 3000 mm and as per application.
Operating Temp in Vessel : 150 deg for the integral switching unit. (standard)

INSTALLATIONS:

Continuous efforts for product development may necessitate changes in specifications without notice

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