

LEVEL INSTRUMENTATION & CONTROL SOLUTIONS

WEATHERPROOF DISPLACER TYPE LEVEL SWITCH (WITH WETTED PARTS IN POLYPROPYLENE), SERIES 137 -Y (SINGLE, TWO POINT & THREE POINT)

The 137-Y is a reliable polypropylene top mounted level switch for use with DM water, waste water and liquids of density between 1 to 1.2 Kg/dm³. It is suitable for tanks with measuring range upto 20,000 mm. It is best suitable for chemical applications with corrosive environments.

Standard model suitaible for 0° to 60°C

• Use of stilling well is recommended in case of excessive turbulence in the tank.

• By using a split displacer variable hysterisis on the set point is possible.e.g. for use in pump control.

✤ SPECIFICATIONS:

•	Measuring range	:	300 mm (Min.). 20,000 mm (Max.).
•	Operating differential	:	25 ±10 mm (Max.).
•	Accuracy	:	± 10 mm.
•	Temperature range	:	0°C to 60°C
•	Output	:	One/Two c/o @ 5A, 230
•	Terminals	:	Suitable for 2.5 mm ² ,
•	Pressure	:	Atmospheric.
•	Material of Displacer	:	Polypropylene.
•	Material of Rope	:	Polypropylene.
•	Density	:	1 to 1.2 Kg/dm ³
•	Enclosure	:	Weatherproof to IP-67 as per IS:13947-1993.

ACCESSORIES:

STILLING WELL : To be ordered seperately if required (Refer LF-137-0821 R00). Stilling Well is recommended when there is excessive turbulance in the tank.

PRINCIPLE OF OPERATION:

The displacer is attached to a coupler by a cable inside the sealing pipe which also acts as a pressure barrier. The coupler rests on the compression spring housed at the bottom of the sealing pipe. With displacer in air, entire weight of the displacer acting on the compression spring compresses the spring downwards and the coupler is out of reach of the field of attraction magnet in the carriage assembly. The rising liquid level causes weight loss in weight of displacer due to the partial or full immersion, weight loss of displacer causes the bell coupler to enter into the magnetic field. The attraction of magnet towards the coupler initiates the snap action and consequent operation microswitches. The level sensing mechanism employs attraction and repulsion properties of magnetic circuit. The attraction property senses the level change and repulsion property actuates the microswitch. This prevents contact chattering.



✤ OPERATING DIAGRAM:











*** Continuous developments may necessitate changes without notice.

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