

# Float & Dial Gauge - FDG

Reliable & maintenance free gauge, suitable for liquid sumps.



SINCE 1984

## FEATURES :

- Can be installed in areas with limited headroom.
- Can be installed / removed from tanks in service.

## CONSTRUCTION & OPERATION

It consists of a float, tied to a SS wire rope, other side of which is wound on a drum carrying constant torque spring, to maintain the rope under continuous tension. Due to change in liquid level the float rises or falls and rotates the drum. This motion is transmitted thru gear mechanism to a pointer moving over a calibrated dial to display level in meters. Digital / Analogue output can also be provided for switching and transmitting as an option.

# LIQUIDS

## SPECIFICATIONS

Dial/Terminal enclosure	: Pdr. coated, Cast Al, WP-IP 66 protection
Calibrated dial	: White Pdr. coated Al scale with black graduations & numerals
Dial size	: Ø155mm, graduations & numerals calibrated in meters
Pointer	: Red Pdr. coated Al.
Measuring ranges	: 0-1, 0-2,.....,0-9, 0-10 mtrs
Installation	: Top
Process conn.	: 3" / 4" BS-10 T 'D' flanged
Process conn. MOC	: SS304 / SS316
Wire rope	: Ø1.6mm x SS304 / SS316
Float MOC	: SS304 / SS316
Float dimns.	: Ø73mm x 240mm H
Accuracy	: ±10mm
Min. sp. gravity	: 0.8
Max. temperature	: -10°C to 100°C
Max. pressure	: Atm

### Adjustable switch (option) :

Switch type & rating	: Micro - SPDT, 5A, 230VAC
Switch action	: Monostable

### Transmitter (option) :

Power supply	: 15-32 VDC (2 wire) loop powered
Output	: DC 4-20mA x 400 Ω load
Accuracy	: 1% of FSD
Conduit conn.	: Polyamide x PG 9

## SERVICES :

Raw / Sea water, Oil, Solvent, Effluent.

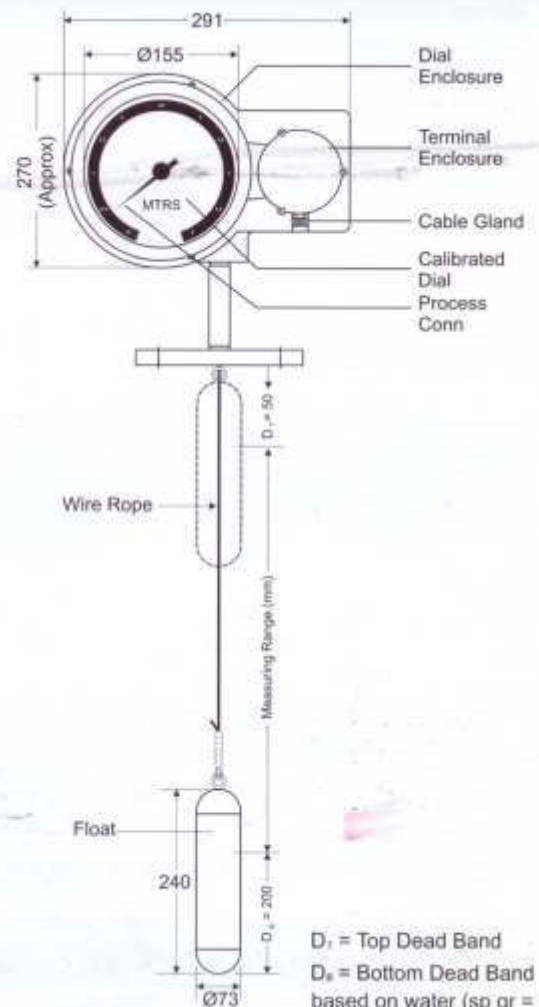
## APPLICATIONS :

Sump, Floating Roof / Gas holding tank.



## CONSTRUCTION

Fig. 1



# Float & Dial Gauge - FDG

Model Identification No.: FDG- 

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### Output

- Local indication only \_\_\_\_\_ 1
- Local indication & Two Switches \_\_\_\_\_ 2
- Local indication & 4-20mA o/p \_\_\_\_\_ 3
- Local indication x Two Switches with 4-20mA o/p \_\_\_\_\_ 4
- Others \_\_\_\_\_ 0

### Wetted parts (Float, Flange, Wire Rope)

- SS304 \_\_\_\_\_ N
- SS316 \_\_\_\_\_ S
- Others \_\_\_\_\_ 0

### Process conn. size

- 3" NB, BS-10 T 'D' flange (without still well) \_\_\_\_\_ 1
- 4" NB, BS-10 T 'D' flange (with still well) \_\_\_\_\_ 2
- Others \_\_\_\_\_ 0

### Measuring range

- 0-1 mtrs \_\_\_\_\_ 1
- 0-2 mtrs \_\_\_\_\_ 2
- 0-3 mtrs \_\_\_\_\_ 3
- 0-4 mtrs \_\_\_\_\_ 4
- 0-5 mtrs \_\_\_\_\_ 5
- 0-6 mtrs \_\_\_\_\_ 6
- 0-7 mtrs \_\_\_\_\_ 7
- 0-8 mtrs \_\_\_\_\_ 8
- 0-9 mtrs \_\_\_\_\_ 9
- 0-10 mtrs \_\_\_\_\_ 10

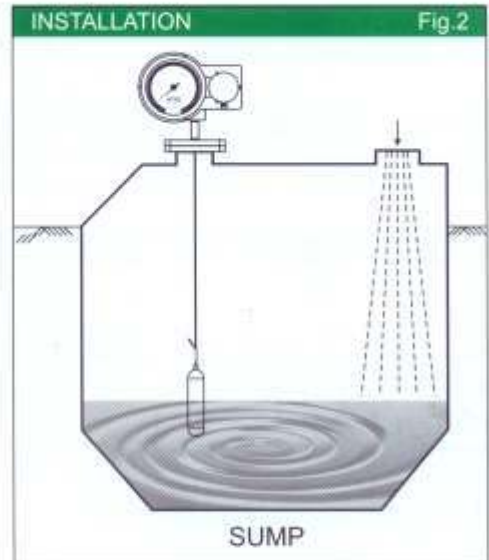
### Accessories

- Without \_\_\_\_\_ W
- MS still well \_\_\_\_\_ 1
- SS304 still well \_\_\_\_\_ 2
- SS316 still well \_\_\_\_\_ 3
- PP still well \_\_\_\_\_ 4
- Others \_\_\_\_\_ 0

# LIQUIDS

### NOTE :

**Still well is recommended for turbulent liquids & ranges beyond 5 mtrs.**



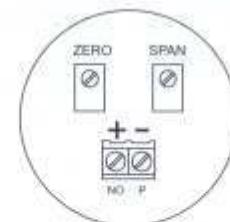
### Terminal Ends for Various outputs Fig.3

#### Local Indication & Two Switches



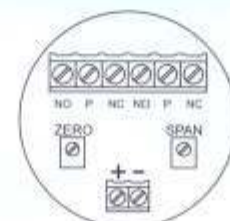
O/P 5A, 230VAC

#### Local Indication & 4-20mA o/p



4-20mA, o/p

#### Local Indication x Two Switches with 4-20mA o/p



4-20mA, o/p

AREA REPRESENTATIVE

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