

Techtrol Float & Dial Gauge – FDG

It is a reliable & maintenance free gauge, suitable for liquids in underground and partially underground tanks.

Construction & Operation :

Analog Indicator - It consists of a float, clamped to a SS wire rope, the other end of which is wound on a drum, carrying constant torque spring housed in WP IP66 enclosure, to maintain the rope under tension. Due to change in liquid level, the float rises or falls and rotates the drum. This motion is transmitted through a gear mechanism to a pointer moving over a calibrated dial to display level in meters. Two adjustable switches with or without 4-20mA transmitter can be provided optionally.

Digital Indicator - The construction is similar to analog except, constant torque spring is housed in Ex-d enclosure and the gear motion induces a change in variable voltage signal to give 4-20 mA output & digital level indication in %, mm, cm or mtrs. The current output can be further connected to PLC/DCS through current isolator.

Salient Features :

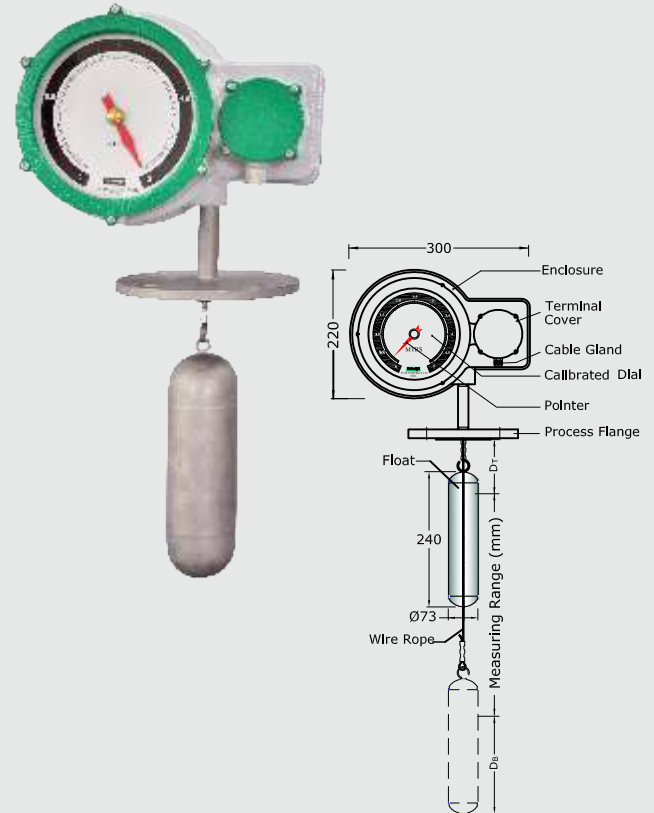
- Easy to install
- Suitable for locations having limited headroom
- Can be retrofitted on existing tanks
- Choice of analog (IP66) & digital (Ex-d Gr. IIB) indicator
- Choice of max. two alarm switches & transmitter (analog)

Specifications :

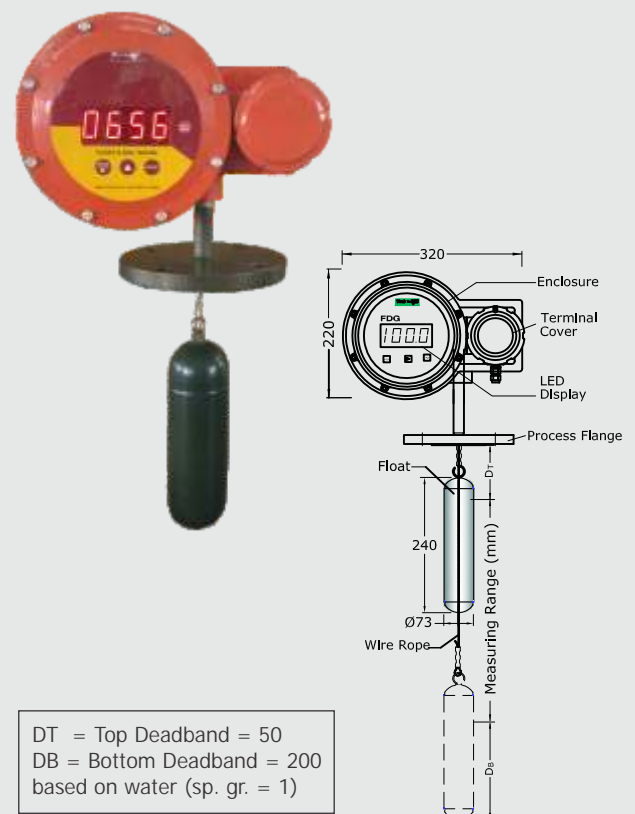
General

Installation	: Top
Process Flange	: Size - 3"NB ANSI 150# or 4"NB (with stillwell) MOC - CS, SS304/316, PVDF coated SS
Wire Rope	: Ø 1.6 x SS304/316, PVDF coated SS
Float MOC	: SS304/ 316/ PVDF coated SS
Float Size	: Ø73 x 240H cylindrical
Min. Density	: 0.8 g/cm ³
Temp Range	: -10 to 100°C
Pressure	: Atmospheric
Indication	: Analog or Digital

Analog Indicator with IP66 Enclosure



Digital Indicator with Ex-d IIB Enclosure



DT = Top Deadband = 50
DB = Bottom Deadband = 200
based on water (sp. gr. = 1)

Specifications :

Analog Indicator

- Ranges : 0-1, 0-2, 0-3,or 0-10mtrs
 Dial Encl. : Cast Al, pdr. ctd., IP66 protection
 Terminal Encl. : Cast Al, pdr. ctd., IP66 protection
 Cable Gland : PG9, Polyamide
 Calibrated Dial : Al, white powder coated with black graduations & numerical
 Pointer : Al, red powder coated
 Accuracy : +/- 10mm

Adjustable Alarm Switches (Optional)

- Switch Type : Micro switch - SPDT,
 Rating : 5A, 250VAC
 Switch Action : Mono-stable

Transmitter (Optional)

- Supply : 24VDC
 Output : 4-20mA x 400 Ohms Load
 Accuracy : +/- 2% FS

Digital Indicator

- Range : 0 to 10 mtrs (decimal point selectable)
 Dial Enclosure : Cast Al. Ex-d Gr. IIB
 Cable Gland : 1/2" NPT, Brass
 Display : 4 digits, 7 segment LED (1")
 Programming : Through keypad
 Accuracy : +/- 2% FS
 Supply : 24VDC
 Output : 4-20mA (4 wire) x 300 Ohms Load

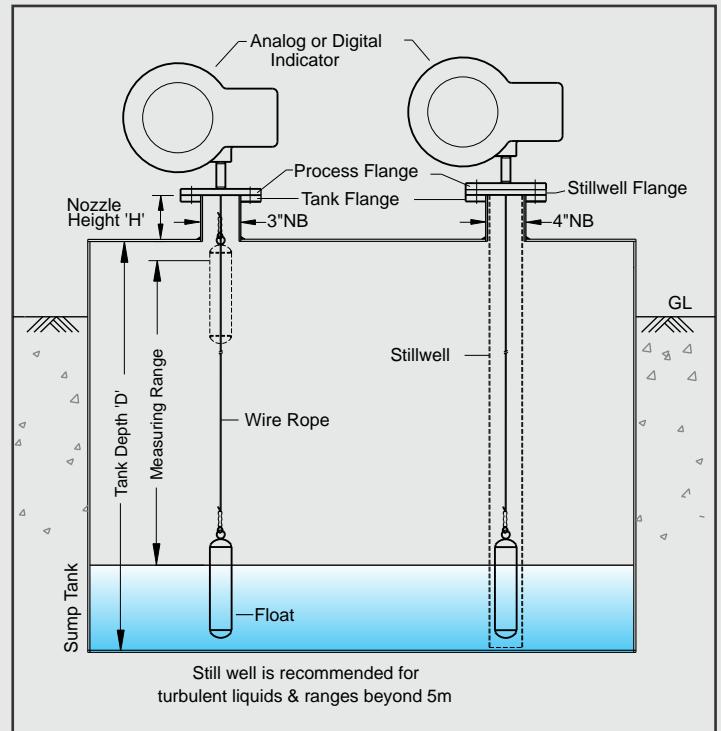
Accessories :

- Still well : 3"NB pipe, with 4"NB ANSI 150 # flange in CS, SS304/316 or PP

Applications :

Raw / Treated Water, Sewage, Effluent, Oil, HDO, LDO & various Solvents

Installation :



Termination & Wiring :

