

## DATASHEET

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### KSS Dial & Float Gauge - DFG

KSS Data Sheet - DS - LM - 006 - 00



Analog Indication



Digital Indication

## Product Overview

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

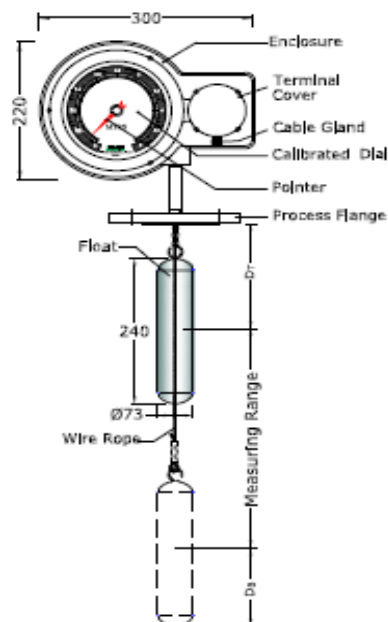
## Salient Features

- 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)

## Construction & Operation

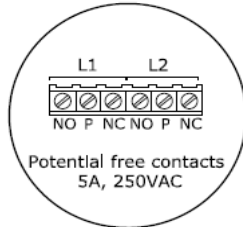
### Analog Indication:

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.

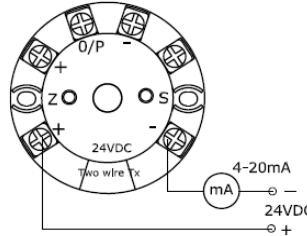


## Termination:

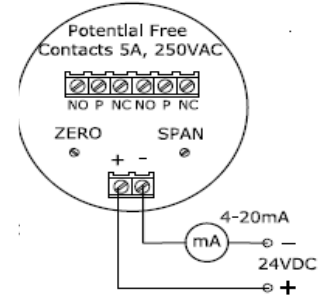
**Analog Indication  
O/P – Two Switches**



**Analog Indication  
O/P – Transmitter (4-20mA)**

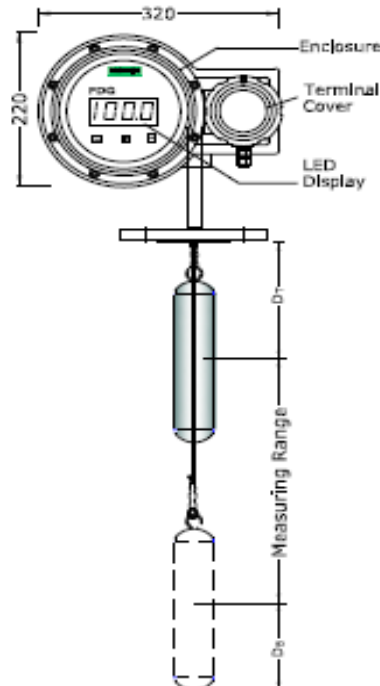


**Analog Indication  
O/P – 2 sw + Transmitter**



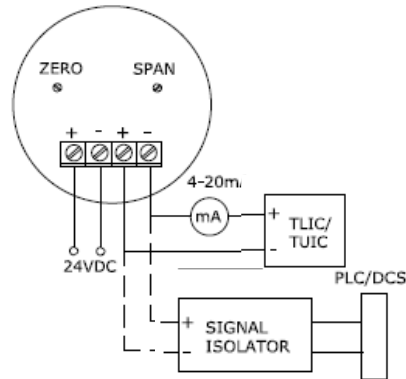
## Digital Indication:

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.

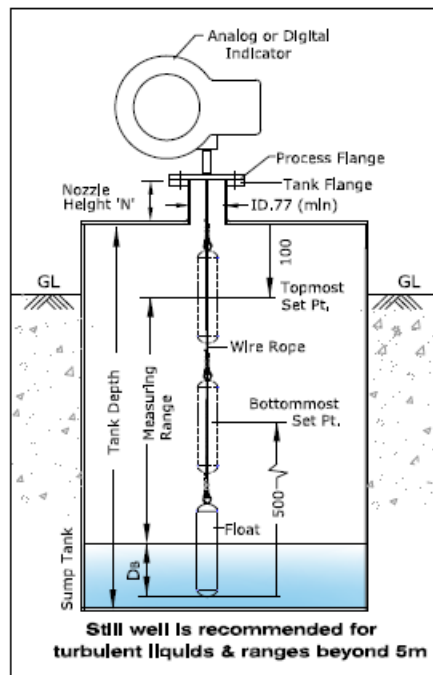


## Termination:

### Digital Indication O/P- Transmitter (4-



## Installation



## Applications

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

## Product Specifications

<b>Adjustable Alarm Switches (Optional)</b>	
Switch Type	: Micro switch - SPDT,
Rating	: 5A, 250VAC
Switch Action	: Mono-stable
<b>Transmitter (Optional)</b>	
Supply	: 24VDC
Output	: 4-20mA x 400 Ohms Load
Accuracy	: $\pm 2\%$ FS
<b>Digital Indication</b>	
Range	: 0 to 10 mtrs (decimal pt. selectable)
Dial Enclosure	: Cast Al. Ex d Gr. IIB
Cable Gland	: $\frac{1}{2}$ " NPT DC Brass
Display	: 4 digits, 7 segment LED (1")
Programming	: Through keypad
Accuracy	: $\pm 2\%$ FS
Supply	: 24VDC
Output	: 4-20mA (4 wire) x 300 Ohms
<b>Accessories</b>	
Stillwell	: 3"NB pipe, with 4"NB ANSI 150 # flange in CS, SS304, PP

<b>General</b>	
Installation	: Top
Process Flange	: 3"NB ANSI 150# or 4"NB (with still well)
Flange MOC	: CS,SS304/316,ECTFE (Haller) ctd 55316
Wire Rope	: $\varnothing$ 1.6 x SS304/316, PTFE insulated SS316
Float MOC	: SS304/ 316, ECTFE (Haller) ctd S316
Float Size	: $\varnothing$ 73 x 240H cylindrical
Liquid SG	: $\geq 0.8$
Temp Range	: -10 to 100°C
Pressure	: Atmospheric
Indication	: Analog or Digital
<b>Analog Indication</b>	
Range	: 0-1,0-2....or 0-10mtrs
Dial Enclosure	: Cast Al, pdr. ctd., IP66 protection
Terminal Encl.	: Cast Al, pdr. ctd. IP66 protection
Cable Gland	: PG9, Nylon
Calibrated Dial	: Al, white powder coated with black graduations & numerical
Pointer	: Al, red powder coated
Accuracy	: +/- 50 mm

## Model Identification

	DFG	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>							
Enclosure Protection x Output									
WP IP 66 x Analog Indication -----	1								
WP IP 66 x Analog x 2 switches -----	2								
WP IP 66 x Analog x 4-20 mA -----	3								
WP IP 66 x Analog x 2 SW x 4-20 mA -----	4								
WP IP 66 x Digital x 4 - 20 mA -----	5								
Ex d IIB x Digital x 4 - 20 mA -----	6								
Installation									
Top -----	T								
Others -----	O								
Wetted Parts (Float, Wire Rope)									
SS304 -----	N								
SS316 -----	S								
SS316L -----	L								
ECTFE Ctd SS 316 (3mtrs max) -----	V								
Others -----	O								
Process Flange Size									
3" NB ANSI 150# -----	1								
4" NB ANSI 150# (with Stillwell) -----	2								
Others -----	O								
Process Flange MOC									
CS -----	M								
SS304 -----	N								
SS316 -----	S								
ECTFE Ctd SS316 -----	P								
Others -----	O								
Instrument 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								
Stillwell									
Without -----	W								
CS Stillwell -----	1								
SS 304 Stillwell -----	2								
PP Stillwell -----	3								
Others -----	O								
Display Instrument									
Not Provided -----	W								
Techtrol Indication Controller (TLIC) -----	C								

## Ordering Information

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Model No, Liquid and its SG, Operating Temperature & Pressure, Tank Depth, Nozzle Height, Min/Max Set Points for alarm switches (optional)

For inquiries contact us at:

## **Khot System And Solution**

### **Corporate Office:**

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