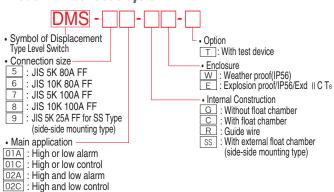
## **Cargo Tank Measuring System**

# Displacement Type Level Switch



### Model number code system



#### **FEATURES**

- Wide differential Fully sealed
- Large contact rating of 250VAC, 15Amp.
- Easy maintenance
  Durable float
- Unaffected by liquid agitation

#### **APPLICATION**

Displacement type level switches are widely used for Coaltar fuel tanks, Heavy fuel oil tanks, Settling tanks, Sludge tanks, Sewage tanks, Fresh water tanks, Lub. oil tanks, D.O tanks, Bilge well and others.

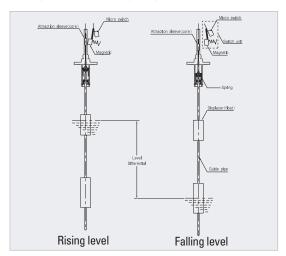
#### **OPERATING PRINCIPLE**

This level switch consists of compression spring, displacer and switch unit in which micro switch and magnetic are assembled.

The operation is based upon simple buoyancy whereby a spring is loaded with weighted displacer which are heavier than the liquid.

Immersion of the displacers in the liquid results in buoyancy force change, which moves the spring upward. Simultaneously, the spring is retracted or extended and the attraction sleeve moves upward into the field of external magnet in the switch unit.

The contact of micro switch is changed by magnetic force as the attraction sleeve is in the field of magnet point force. This principle allows adjustment of the switching point by moving the displacer along the guide pipe.



#### Standard model and specification

: High alarm / Mid. and low control

03CA: High and Mid. control/low alarm

Model	Main	Connection	Max. setting range(mm)	Setting accuracy (mm)	Min. Sp.Gr	Max. press. (kg/cm)	Max. temp. (°C)	Switch contact rating	Cable	Material			
	application	Connection							entry	Housing	Flange	Float	Float chamber
DMS-□01A	High or Low alarm	l Top flange type	220 ~ 5000	±8	0.85	10	180	250VAC, 15A	15b	AC	SS41	SUS304	SUS 304
DMS-□01C	High or Low control												
DMS-□02A	High and Low alarm	Lop flange type	220 ~ 4500	±8	0.85	10	180	250VAC, 15A	15b	AC	SS41	SUS304	SUS 304
DMS-□02C	High and Low control												
DMS-□03AC	High alarm/ Mid. and low control	Top flange type	220 ~ 4000	±8	0.85	10	180	250VAC, 15A	15b	AC	SS41	SUS304	SUS 304
DMS-□03CA	High and Mid. control / Low alarm												

- Optional informations
- 1. Material (SUS304, SUS316) for wet parts including mounting flange, float chamber is also available on request.
- 2. Cable entry of 3/4" (JIS 20 a, b, or c)is also available on request.
- 3. Non-explosion proof models can be used as intrinsically safe type jointed with I.S barrier.
- 4. Please consult with our factory when the other press. / temp. is required.