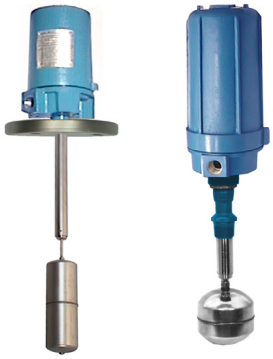
SERIES 700 MECHANICAL LEVEL SWITCHES

MAXIMUM RELIABILITY, WELL MADE, SIMPLE, UNDERSTANDABLE, LOW MAINTENANCE

TOP INSERTED FLOAT ACTUATED LEVEL SWITCHES

TYPE 709 ALARM

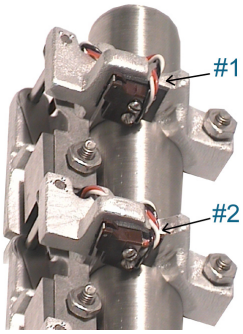
TYPE 710,711 MULTISWITCH

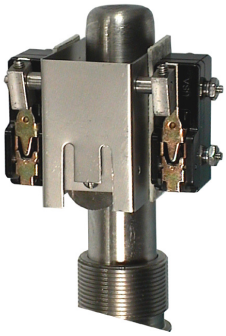


Operation: A float is carried up and down by variations in liquid level. One or more switch actions occur at selected level positions.
Uses: Provide high and / or low level alarm, pump control, etc.
Insertion: Up to 10 feet (3m) below the flange face
Switch Action: From 1 to 4 points of alarm and/or differential; up to 60" (1.5m) differential available with Type 711
Specific Gravity: From 0.35 to 2.40 SGU
Temperature: From –150° to 750°F (-100° to +400 °C)
Pressure: From –15 to 1200 PSIG (-1 to 80 bar) working pressure
Process Connection: 1" to 4" NPT threaded; 1" to 12" flanged, up to 900# rating; ASA, DIN, JIS

SWITCHING STATIONS

ALL SERIES 700 UNITS





DPDT - 15 AMP

Operation: All switches are magnetically coupled to the level sensing element, no seals
OUTPUT SWITCH TYPES:
Enclosed or Hermetically sealed Micro SPDT, DPDT, 4PDT; up to 15A; mV to 250 VAC
Third Party Listings: CSA NRTL/C (USA & Canada) Explosionproof: Class I, Division 1, Groups BCD Hoseproof: Type 4X
Quality System: ISO 9001 Approved
Pneumatic: 2-way block or vent valve

TOP INSERTED DISPLACER ACTUATED LEVEL SWITCHES

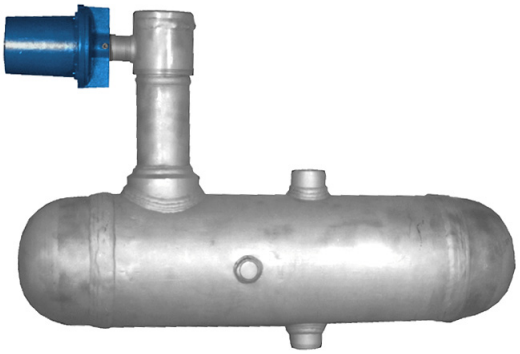
TYPE 715 ALARM

TYPE 716, 717, 718 MULTISWITCH

Operation: The weight of a displacer(s) is supported by a spring. Variations in liquid level cause the displacer(s) to move up and down. Switching action occurs at each displacer.
Uses: High and low alarm; single and multiple pump control
Insertion and Switching band: up to 50 feet (15m) maximum
Switch action: From 1 to 4 points of alarm and/or differential
Specific Gravity: form 0.25 to 2.4 SGU
Temperature from –20 to 500°F (-30 to 260°C)
Pressure: from –15 to 2200psig (-1 to 150 bar) working pressure
Process Connection: 2" to 4" NPT threaded; 2" to 12" flanged up to 1500# rating; ASA, DIN, or JIS

HIGH TEMPERATURE AND PRESSURE

TYPE 763 DISPLACER ELEMENT



Operation: A counterweighted horizontal pivoting element operates an output switch as the liquid level or interface crosses the body centerline.
Uses: Steam drums, trapdrains, etc.
Specific Gravity: 0.3 to 2.4
Interface Differential: 0.1 minimum
Temperature: -350° to 1100°F (-210° to 600°C)
Pressure: -15 to 6000 psig (-1 to 415 bar)
Process Connection:
1", 1 ½", or 2" butt, stub, or socket weld
ANSI flanges or Greyloc hubs

DELTA CONTROLS Corporation

HIGHEST RELIABILITY AND SAFETY OF ANY TYPE LEVEL SWITCH
FOR HEAVY INDUSTRIAL APPLICATIONS

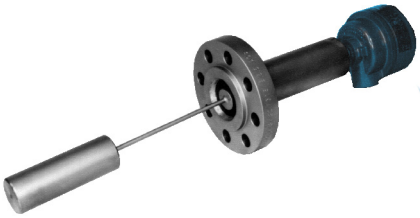
SIDE INSERTED FLOAT OR DISPLACER ACTUATED LEVEL SWITCHES

Operation: A solid displacer or heavy-duty float is supported by a pivot shaft and counterweight. Single point alarm switching action occurs as the liquid level crosses the center line of the body.
Uses: High and low level alarm and sequencing

Type 735 Alarm MPT Process Connection

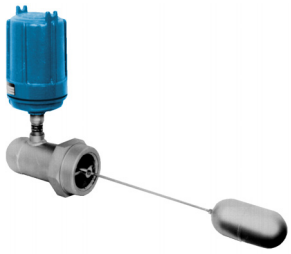
Insertion: 14 inches (0.35m)
Specific Gravity: 0.6 to 2.4
Temperature: -85 to 1000°F (-65 to 540°C)
Pressure: –15 to 2250 psig (-1 to 150 bar)
Process Connection:
1" to 3" threaded
1 ½" to 4" flanged, up to 900# rating, ASA, DIN, JIS

Type 735 Flanged Alarm



Insertion: 12 to 24 inches (0.3 to 0.6m)
Specific Gravity: 0.15 to 2.4
Temperature: -85 to 1000°F (-65 to 540°C)
Pressure: –15 to 3600 psig (-1 to 240 bar)
Process Connection:
2" to 12" flanged, up to 1500# rating, ASA, DIN, JIS, any facing

Type 740 Two-Point Alarm or Differential Pump Control



Operation: A pivoted float rides on the liquid level. Two switch actions occur as the level varies.

Insertion	12	18	24	36	48
Max. Diff.	3.6	5.9	8.3	12.9	17.6

Specific Gravity: 0.4 to 2.4
Temperature: -50 to 750°F (-45 to 400°C)
Pressure: -15 to 750 psig (-1 to 500 bar)
Process Connection:
3"NPT threaded
3" to 12" flanged, up to 600# rating, ASA, DIN, JIS

EXTERNAL CAGE FLOAT OR DISPLACER ACTUATED LEVEL SWITCHES

Type 750 Float or Displacer Level & Interface Alarm

Operation: The weight of a displacer or heavy-duty float is supported by a counterweight and a pivot shaft. Switching occurs as the level crosses the body centerline.
Specific Gravity: 0.23 to 2.4
Temperature: -200 to 1100°F (-130 to 600°C)
Pressure: –15 to 3600 psig (-1 to 250 bar)
Process Connection:
Top/Bottom or other
½", ¾", or 1" NPT or Socket Weld
½" to 2" flanged, to 1500#, ANSI
½" to 2" hubs, 10,000#, Greyloc

Type 760 &762 Alarm Vertically Rising Element

Operation: A float or displacer moves up and down as the liquid level varies. Switch action occurs at a preset liquid elevation
Switching Differential: fixed
Specific Gravity: 0.35 to 2.4
Temperature: -100 to 800°F (-75 to 425°C)
Pressure: –15 to 20,000psig -1 to 1400 bar)
Process Connection:
SB, SS, or SSB style
½", ¾", or 1" NPT, stub, S. W., or hubs
½" to 2" flanged, to 2500#, ANSI

Type 765, 767, & 770 Differential or MultIswitch

Operation: A float with a long stroke action moves up and down as the liquid level varies. Switching occurs at up to four separate preset points.
Switching Stations: 1 to 4
Differential: up to 72" (1.8m)
Specific Gravity: 0.4 to 2.4
Temperature: -20 to 750°F (-10 to 400°C)
Pressure: -15 to 2200 psig (-1 to 147 bar)
Process Connection: Same as type 760

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