FLOAT SWITCH / ALARM -TOP INSERTED 710A – TWO ALARM POINTS 710D – ONE STATION, ADJUSTABLE DIFFERENTIAL

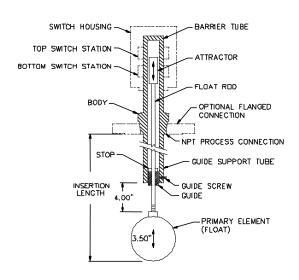
The Model 710A is similar to the Model 709. The principal difference is that it has more float movement and the power needed to reliably operate two switch stations. The upper switch is activated about two inches above the elevation at which the lower switch activates.

The 710A is commonly used for high level shutdown with a preliminary high level warning which announces that "Shutdown" may soon occur and remedial action should be taken at once.

A stainless housing is available for use with the SPDT and DPDT versions of the small "S" model switch stations. This housing is both watertight and for Class 1, Div 1 hazardous areas. It proves good protection in extremely corrosive locations such as sulfuric acid plants and offshore oil production platforms. It is also available in a polished version for use in pharmaceutical and food plants.

The Model 710D body, mechanism and float are the same as the one used for the Model 710A. The difference is that it only has a single switch station and is equipped with a differential device. The station activates at a "High" level and remains activated unit the liquid level falls to a lower elevation. The additional amount that it must fall, before the station deactivates, is called the "Differential". This amount is adjustable from about 1.0" to about 2.5", depending upon the Specific Gravity (SPG) of the liquid.

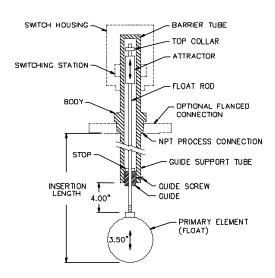
The Model 710D is commonly used where a considerable amount of surface agitation or splashing is expected to occur. This design results in a more stable and reliable alarm action, particularly as the level approaches the switching point. It can also serve as a pump control in large tanks.



MODEL 710A

Model 710A 710D





MODEL 710D



	BASIC TYPE]-	SENSING FLOAT	-	INSERTION DISTANCE]-	PROCESS CONNECTION	-	SWITCH & HOUSING	-	OPTIONS
MODEL EXAMPLE	710A	_	TY	-	24.0"	_	4"/150RS	_	S1W	_	AA

BASIC TYPE								
M/N	DESCRIPTION							
710A	2 ALARM POINTS							
710D	1 STA., ADJ DIFF							

316 S.S. SPRING: 300°F MAXIMUM; INCONEL SPRING TO 500°F BASIC: 316 S.S. TRIM,

	SENSING FLOAT																			
ELEMENT (INCHES)					KG @ °F			PROCESS NECTION	TYPE ACTION	MINIMUM SPG @ INSERTION DISTANCE (INCHES)						S)				
M/N	MATERIAL	O.D.	LENGTH	100	450	750	NPTF	FLANGED NOZZLE		13	18	24	36	48	60	72	96	120	150	
TY	316 S.S.	2.6	7.0	275	185	160	2.5"	3" S160	A.D.	0.79	0.80	0.82	0.84	0.88	0.91	NA	NA	NA	NA	
1 1	310 3.3.	2.0	7.0	2/5	185 160 2.5	2.5	3 3 100	2 STA	0.89	0.91	0.93	NA	NA	NA	NA	NA	NA	NA		
441/	14Y 316 S.S. 3.5	0.5	0.5	7.0	005	475	445	NA	4" S120	A.D.	0.62	0.63	0.65	0.66	0.69	0.71	0.74	0.79	0.85	0.92
14 Y		3.5	7.0	265	175	145	INA	4 5120	2 STA	0.70	0.71	0.72	0.74	0.76	0.79	0.82	0.87	0.92	NA	
15Y	316 S.S.		.5 BALL	425	300	250	NA	6" S80	A.D.	0.43	0.44	0.45	0.45	0.47	0.48	0.50	0.52	0.55	0.58	
151	316 5.5.	5.5		425	300				2 STA	0.49	0.50	0.51	0.51	0.53	0.55	0.55	0.58	0.61	0.64	
D)/	040.0.0	7.0	DALL	405	075	005	5 NA	8" S120	A.D.	0.57	0.58	0.58	0.58	0.59	0.60	0.60	0.62	0.63	0.65	
PY	PY 316 S.S. 7.0	7.0	7.0 BALL	425	5 275	235			2 STA	0.61	0.61	0.61	0.62	0.62	0.63	0.64	0.65	0.66	0.68	
	# INTERFACE SERVICE																			
IY	316 S.S.	7.0	7.0 BALL	730	475	400		8" S120	0	.50 F	OR A	DJUST	ABLE	DIFF.	; 0.12	25 U	NITS			
IY	310 5.5.			730		400	NA	0 5120	0.6	52 FC)R 2 S	TATIC	N ALA	ARM; [DIFFI	ERE	NTIA	L		

- # MINIMUM DIFFERENCE BETWEEN THE SPECIFIC GRAVITIES OF THE TWO LIQUIDS: 0.125 UNITS
- # MINIMUM SPG OF THE HEAVIER LIQUID: 0.50 UNITS
 ALLOWED INSERTION: ANY FROM 12" (BOTTOM OF FLOAT HANGING FREE)
 CENTERLINE OF SWITCH BAND: 4" ABOVE INSERTION DEPTH

INSERTION DISTANCE									
M/N	DESCRIPTION	/INCH							
13"	MINIMUM INSERTION DISTANCE	N/C							
#	13" TO 150" MAXIMUM INSERTION	(OVER 13")							

REPLACE "#" WITH REQUIRED INSERTION (INCHES).

PROCESSCONNECTION										
M/N										
ANSI SIZE	STEEL	316.S.S.								
1"MPT#										
3"MPT#										
3"/150R#										
4"/150R#										
4"/300R#										
6"/150R#										
6"/300R#										
8"/150R#										
8"/300R#										
REDIACE "#	t" WITH "S'	' FOR STEE								

REPLACE "#" WITH "S" FOR STEEL OR "Y" FOR 316 S.S.
** ADD 20% TO 304 S.S. PRICE FOR 316 S.S. MATERIAL

SWITCH & HOUSING											
	SWITC	H STAT	ION DESCRI	PTIONS		INTENDED					
W/P-N4	710A	710D	E/P-7CD,9	710A	710D	SERVICE **					
S1W S2W S4W		NA NA	* S1C * S2C S4C		NA NA	GENERAL USAGE					
T1W T2W			T1C T2C			HIGH TEMPERATURE					
H1W H2W			H1C H2C			ENVIRONMENTALLY SEALED					
L1W L2W			L1C L2C			A.C. MOTOR LOADS					
D1W D2W			D1C D2C			HIGH D.C. LOADS					

FOR NEMA 4X (EPOXY): ADD \$ AND CHANGE "W" TO "X"
FOR NEMA 7, GROUP B: ADD \$ AND CHANGE "C" TO "B"

* FOR ALL 300 S.S. NEMA 7B HOUSING: ADD \$ AND CHANGE "C" TO "T" **SEE DATA SHEET FOR SWITCH LOAD AND SERVICE RATINGS

M/N	HOUSING MAX PROCESS TEMP (°F) - SWITCHES ADD \$										
	EXTENSION		NSING S 1, DOWT	ERVICE HERM)	NONCON HYDF						
	LENGTH	D	S,L	H,T	D	S,L	H,T				
AA	NONE	400	500	750	500	600	850				
T1	6"	500	575	950	600	700	1100				
T2	12"	600	650	1250	800	925	1500				
SA	316SS SHEATHED ATTRACTOR (REQ'D FOR 316SS BODY)										
нн	120VAC HOUSING HEATER. PREVENTS CONDENSATION & ICING; INSULATE HOUSING FOR LOW AMBIENT CONDITION										
HBKT	SUPPORT BRACKET, HORIZONTAL LEDGE MOUNT										
VBKT	SUPPORT BR	ACKET, \	/ERTIC	AL WALL	MOUNT						



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