

ALTS Thermal Flow & Level Switch

GENERAL

SmartmeasurementTM ALTS thermal switch represents the State-of-the-art in gas or liquid flow switching or liquid level controls. The ALTS provides the highest quality flow and level detection by using a high-resolution thermal differential technique. The sensor consists of a pair of matched Resistance Temperature Detectors (RTD's). One RTD is using a self-heated constant DC current. The other RTD is unheated and provides an accurate process temperature reference. The thermal differential created between the reference and the heated RTD pair is a function of the density and/or velocity of the media with which the sensor is in contact. The sensor and wetted parts are of durable 316L stainly steel, all welded construction with no moving parts. The switch is easy to install and adjust, giving reliable, low maintenance performance in the most demanding applications.

对FEATURING

- Mass flow Switch for the detection of the mass flow rate of liquids and gases
- □ No moving parts and no leak paths, no O-rings or graph oil seals to ware, fail or leak.
- ☐ Point level switch for liquid level detection
- ☐ Wide operating temperature range -70C to 458C (-100F to +850F)
- ☐ Flow Switch range of 0 to 1.5 mps(5 fps) liquids and 0.07 to 150 mps (500 fps) gases
- □ Level Switch switches on level change 0.076 cm (0.03 inch)
- ☐ Fast flow switch response time of 0.5 to 10 seconds (media dependent)
- Level switch response time of 0.1 to 1 second of wetting (media dependent)
- ☐ CE, CENELEC and CSA approvals
- ☐ Insertion length from 1.27cm to 100 cm

INCOMPLY

- Process Connection: 0.75" MNPT standard.
 0.5 to larger MPNT, Sanitary and flanges optional
- Process temperature: -70C to 200C (-100F to 390F) standard
 Medium T to 300C (572F) and High T to 485C (850F)
- Operating pressure: to 207 bar (3000 psia)
- Velocity Range : Depends on fluids
 Liquids : 0 to 1.5 mps Adjustable flow rate

Gas: 0.07 to 150 mps Adjustable flow rate

• Repeatability: +/- 1% of set point (Flow) or 1/32" (0.8mm) Level

• Material : 316 SS standard. Hastelloy, Monel, Inconel, etc.

Housing protection : Explosion Proof; NEMA 3,4X,7,9

Ex-protection: CSA, FM, UL, CENELEC and EECS approved

• Power requirements: 115 VAC, 50/60Hz or 230 VAC, 50/60Hz

24VDC optional. 3.1 Watt maximum

Electronics: -40C to 60C (-40F to 140F)

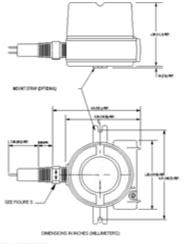
Output: 5A. 250 VAC. DPDT with fail safe capability

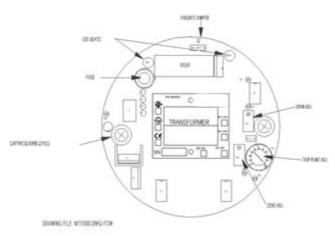
Insertion Length: 2.0" standard. 0.5" or greater optional

Flow Switch: over a range of +/-10C.

Temperature compensated through entire range.

Stability: Drift <0.5% from calibrated set point





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LTS					the following			vel switcl	-	
Type of liquid				•		_	matio	11.		
Switch point settings	We need the name of your liquid, or gas Flow set point and units									
Line Size	we need to know your pipe size as well connection type (flange, threaded, etc)									
Process Temperature	We calibration your Flowmeter as close to your application as possible									
Type of Electronics	Indicate if you want integral or remote mounted									
Power Requirements	Specify your power requirements such as 24 VDC or 11							5 VAC or 230 VAC		
ALTS Thermal flow & level	cwitol	-	y your	power	equiremen	is suc	11 d3 24	VDC 01 110	7 VAO 01 230 VAO	
ALTS-FS4200 flow switch	SWILCI	XX	XXXX	VVV	XX"	XXX	XXX		Description	
ALTS-FS3200 - level switch		XX	XXXX	-	XX"	XXX	XXX		Description	
CSA approvals	CSA	^^	^^^	\\\\	^^	^^^	***		Description	
Cenelec Approvals	CNL								Agency Approvals	
No Approvals	NX								, igonoy ripprovais	
	INA	0750	1							
0.75" MNPT (Standard)	\dashv	050								
0.5" MPNT	\exists	100	1							
1" MNPT	\dashv	RA1								
Raised face flange 150# 1"	\exists	RA1	1						Process connection	
Raised face flange 150# 2" Raised face flange 300# 1"		RB1	4						Frocess connection	
Raised face flange 300# 1"		RB2	4							
Special	_	SPL	1							
Sanitary with 3A stamp		3A1	4							
	_	JAI	S6							
316 SS (Std) 304 SS			S4							
304L SS	_		SL							
Hastelloy B	-		HB							
Hastelloy C	_		HC						Sensor Material	
Inconel 600	-		10						Sensor Material	
Monel	-		MN							
Alloy 20	-		A2							
Special Material	-		SM							
Local Electronics			Olvi	LE						
Remote electronics with 3 meter cable				RE					Mounting	
2 inch standard					02.0					
000.00 (0.5" and greater)				-	??				Insertion length	
24VDC					DC24					
AC120					AC110				Power requirement	
AC220	┪				AC220	4			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
200-300C					. 10220	NT				
300-458 C	1					HT			Temperature	
Calibration required	1						СВ			
Extended Neck (high temp)	1						EN			
Explosion Proof Window	┪						XW			
Variable insertion	\exists						V1			
Hot Tap (live)	\exists						LT			
DS (double sided enclosure)	┪						DS			
Thermocouple output	1						THM			
	4									

Smartmeasurement LLC.

RTD output CE Approvals RTD