

High-Performance Dual/Quad Limit Alarms

AS4 Series

- Engineering unit display
- Configurable input sensor type and range
- Dual or quad alarm trip



KS2 Series

- 1/16 DIN panel cutout
- Front digital displays
- Dual alarm trip

AS4V DC mV, V & mA input
AS4R RTD input
AS4M Potentiometer input
AS4CT CT (AC current) input

AS4T Thermocouple input

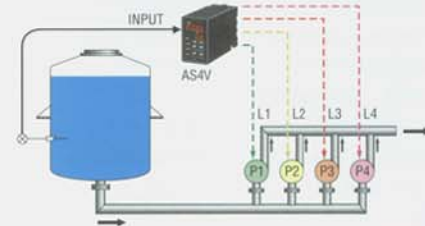
AS4LC Strain gauge input

KS2V DC voltage input
KS2TR Temperature input

SMOOTH PUMP OPERATION

Q We are trying to control the level of liquid in a tank by staging four pumps that are connected in parallel (see figure). However, the continuously changing liquid level causes pumps to cycle ON and OFF sporadically around the setpoints. How can we solve this problem?

A You will need to set a deadband (hysteresis) for each pump's control setpoint. With ordinary limit alarms, you might have to set two trip points for each pump to accomplish this result. The AS4V can be field programmed to eliminate the unwanted pump cycling, giving you consistent pump operations and control.



SPECIFICATIONS

Series	AS4 Series						KS2 Series	
Model No.	AS4V	AS4T	AS4R	AS4M	AS4CT	AS4LC	KS2V	KS2TR
Selectable input	0-50 mA ±1V ±10V	K, E, J, T B, R, S C (WRe 5-26) N, U, L P (Platinel II)	Pt 100 Pt 1000 Ni 508.4 Ni 100, Cu 10 @25°C	100 to 10k Ω	0-1 Aac 0-5 Aac	0.0-3.0 mV/V 0.0-10.0 mV/V 0.0-30.0 mV/V	1-5 V	K, E, J, T B, R, S C (WRe 5-26) N, PL2 Pt 100
Alarm points	Dual or quad (Hi or Lo configurable for each input)						Dual (Hi or Lo configurable)	
Relay contact	Quad: 120 Vac, 30 Vdc @1A, 240 Vac @0.5A Dual: 120 Vac, 30 Vdc @5A, 240 Vac @2.5A				120 Vac, 30 Vdc @1A 240 Vac @0.5A		220 Vac @3A 30 Vdc @3A	
DC power	24 Vdc, 110 Vdc						24 Vdc	
AC power	100-240 Vac						100-240 Vac	
Set accuracy	± (0.1% of FS + 1 digit) (0.2% for Cu 10, 0.3% for AS4CT)						±0.1% FS	
Response	≤0.5 sec.	≤1.5 sec.		≤0.5 sec.	≤0.7 sec.	≤1.5 sec.	----	
Operating temp	-5 to +55°C (23 to 131°F)						-10 to +50°C (14 to 122°F)	
Insulation resistance	≥100MΩ with 500 Vdc						≥50MΩ with 500 Vdc	
Dielectric strength	2000 Vac @1 minute (input to output to power to ground)						1500 Vac @1 minute (input to SET1/SET2 to power)	
Setpoint adj.	-1999 to 9999		-240 to 900	-1999 to 9999		-5 to +105%		
Deadband	1 to 9999		0 to 900	1 to 9999		0 to 102%		
Scaling	-1999 to 9999		-240 to 900	-1999 to 9999		-1999 to 9999		
Read rate	100 msec.						0.5 sec.	
Other features	Failsafe operation, latching, power/alarm ON delay, moving average filter, power-saving mode						Failsafe, power/alarm ON delay, First order lag filter	
CE marking	Yes						Yes	
Safety approval	UL & C-UL				----		UL & C-UL	