



## Product Data

### AFP

Analog to Floating Point  
(Tri-State) Output

## Product Description

The AFP allows an analog input signal to control a floating point actuator. The AFP converts an analog signal into two relay contact outputs (one increase/one decrease). The AFP's isolated floating point output can be controlled by any one of eight analog input signal ranges (using an offset jumper).

On a loss of power, the AFP's output relays will be open and no signal will be generated. The actuator will remain at the last commanded position unless it has "spring return".

An LED indicates power to the AFP. Its output rate of change (nine ranges, in four versions) is DIP switch selectable. In Version 4, the AFP relays stay on at minimum and maximum voltage. In Version 5, The AFP relays stays on with 5% of maximum or minimum input voltage. No overshoot on maximum or minimum input voltage.

The AFP is covered by ACI's Two (2) Year Limited Warranty, which is located in the front of ACI'S SENSORS & TRANSMITTERS CATALOG or can be found on ACI's Website, which is: [www.workaci.com](http://www.workaci.com).

Specify: **AFP ( )** 30, 60, or 90 second timing (standard)

- Version 2\* 120, 150, or 180 second timing
- Version 3 14, 16.5, or 19 second timing
- Version 4 30, 60, or 90 second timing  
(Relay stay on @ min/max)

## Product Specifications

Supply Voltage	24VDC or 24VAC, +/- 10%, 50 or 60 Hz
Supply Current	105mA max w/o 24VDC auxiliary output 190mA max w/ 24VDC auxiliary output
Input Ranges (Jumper Selectable)	0-5VDC, 0-15VDC, 0-10VDC, 0-20mA
Input Ranges with Offset Jumper	1-5VDC, 3-15VDC, 2-10VDC, 4-20mA
Input Impedances (Nominal)	Voltage/ 10,000Ω nominal Current/ 250Ω nominal
Output: Floating Point	Two relay contact outputs (Increase/Decrease)
Relay Contact Ratings	Form C 2 amps max. @24V
Output Accuracy	2% Full Scale @ 32 to 120°F
Operating Temp/RH	32 to 120° F (0 to 48.9° C) / 10 to 95% non condensing
Approvals	RoHS

\*Upon power-up, the decrease relay will drive 100% of the chosen timing range to ensure that the output is at its minimum position. To ensure that the control signal and actuator are in sync, each time the analog input signal reaches either the 2% to 5% level and below or 95% to 98% level and above, the increase or decrease contact will driven to 100% of the selected full scale timing range.

Wiring Diagrams available at [www.workaci.com](http://www.workaci.com)

## Interface Devices



### Attributes:

- 8 selectable analog input signal ranges (Voltage/ Current)
- Floating point output (Two Relay Contacts)
- DIP switch selectable rates of change (10 ranges available)
- Custom rates of change available
- Electrically isolated output
- Power (LED) indicator
- No wrap around
- Manual override
- Snap track included

### Applications:

- Electric actuator control



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TEMPERATURE

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INTERFACE DEVICES