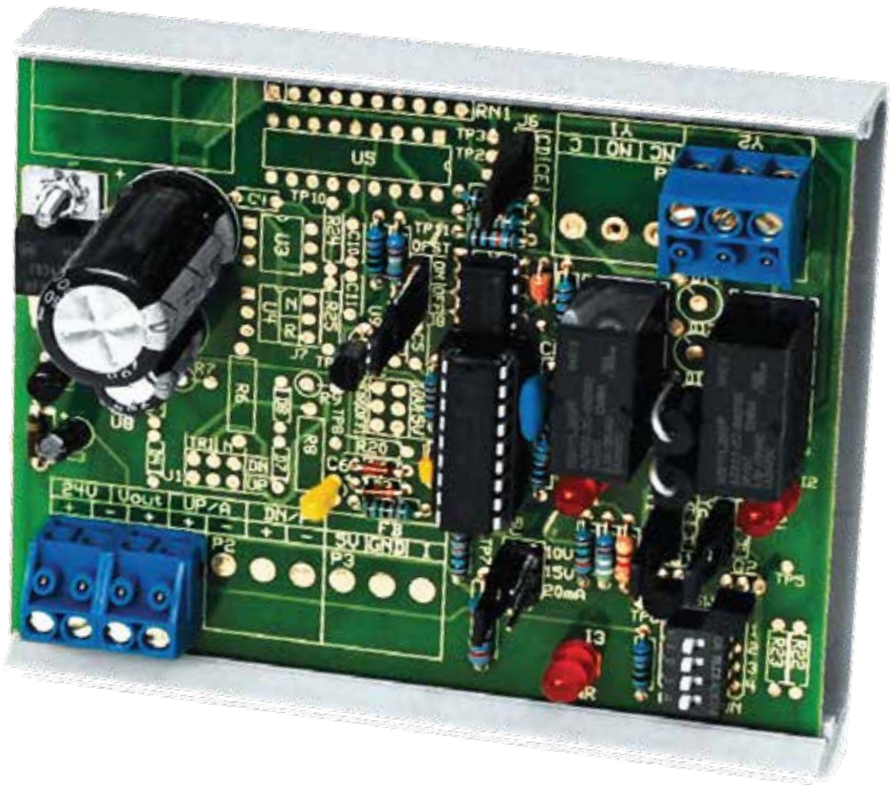

AFP

Input | Analog | Output | Floating Point

Analog to Floating Point Output

The AFP allows an analog input signal to control a floating point actuator. It converts an analog signal into two relay contact outputs (one increase/one decrease). The isolated floating point output can be controlled by any one of nine analog input signal ranges (using an offset jumper). On a loss of power, the 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". The AFP output rate of change (nine ranges, in six versions) is DIP switch selectable. In Version 4, the 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. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's web site, www.workaci.com.

Specifications

Supply Voltage	24 VDC or 24 VAC, +/- 10%, 50 or 60 Hz
Supply Current	105 mA maximum w/o 24 VDC auxiliary output 190 mA maximum w/ 24 VDC auxiliary output
Input Ranges (Jumper Selectable)	0-5 VDC, 0-10 VDC, 0-15 VDC, 0-20 mA
Input Ranges with Offset Jumper	1-5 VDC, 2-10 VDC, 3-15 VDC, 4-20 mA
Input Impedances (Nominal)	Voltage/10,000Ω nominal Current/250Ω nominal
Output (Floating Point)	Two relay contact outputs (Increase/Decrease)
Relay Contact Ratings	Form C, 2A maximum @ 24V
Output Accuracy	2% Full Scale @ 32 to 120ºF
Operating Temp/RH	32 to 120ºF (0 to 48.9ºC)/10 to 95% non condensing
Product Dimensions	(L) 3.45" (W) 4.00" (H) 1.15"

Ordering

Please select AFP as an Interface Device (A) and one Version (B). **NOTE:** Upon power-up, the decrease relay will drive 100% of the chosen timing range to ensure that the output is at its minumum 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 be driven to 100% of the selected full scale timing range.

A Interface Device	B Version
○ **AFP** (Analog to Floating Point (Tri-State) Output)	○ **----** (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)
	○ **Version 5** (90, 135 or 180 Second Timing) (Relay Stay On @ 5% Min/Max)
	○ **Version 6** (18, 75 or 360 Second Timing)

Build your part number

After completing (A) & (B) from the above table, fill in the Part Number Table below. An example part number is offered.

	—	
A		B

EXAMPLE: AFP - Version 5

RoHS COMPLIANT 2002/95/EC