

Accutech 4AO, 8SW, 4AO-8SW

Analog & Switch Output Modules



Product at a glance

The Accutech™ analog and switch output modules are base radio accessories that provide analog outputs and switch closures based on process values from an associated field unit. The modules are DIN rail-mounted, and powered from an external 24 Vdc source. LEDs indicate power, RS-485 link data transmission, and fault (fail-safe) condition. Up to 25 output modules can be daisy-chained on an RS-485 network from the base radio to provide a total of 100 analog outputs and 200 individually isolated switch closures. Accutech Manager is required to set up the user-programmable options, which include input/output mapping, range, trim, and fail-safe.

The 4AO analog output module provides four 4...20 mA analog outputs, representing primary and secondary process variables monitored by field units.

The 8SW switch output module provides eight switch closures configured to open and close based on the process value, input switch or status of a field unit. These switch closures include low battery or sensor out-of-spec values.

The 4AO-8SW analog and switch output module combines both the features of the 4AO and 8SW modules in one convenient package.

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Analog & Switch Output Modules

Specifications - Accutech 4AO, 8SW, 4AO-8SW

General

Output Type	
4AO	4-Channel Analog Output
8SW	8-Point Switch Closure Output
4AO-8SW	Combination 4-Channel Analog Output & 8-Point Switch Closure Output Module

Functional

Analog Outputs				
Number of Channels	4			
Type	Isolated Current Sink Outputs			
	Min.	Typ.	Max.	Units
Current Range	3.1		23.5	mA
Field Voltage	12	24	30	V DC
Isolation	<ul style="list-style-type: none"> • 2,200 Vrms between Field and Logic • 1000 Ω maximum @ 24 Vdc • 500 Ω maximum @ 12 Vdc 			
Connector	14 AWG max.			

Switch Outputs				
Number of Channels	8			
Type	Isolated Avalanche MOSFET Outputs			
	Min.	Typ.	Max.	Units
Current	0	N/A	1	Adc
Voltage	6	24	30	Vdc
AC Frequency	N/A	N/A	N/A	
Resistance		9	15	m Ω
Connector	14 AWG max.			

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Analog & Switch Output Modules

Specifications - Accutech 4AO, 8SW, 4AO-8SW, cont'd

Operating Ambient Environment	<ul style="list-style-type: none"> • -40...85 °C (-40...185 °F) operating • -40...140 °C (-40...284 °F) storage • Ordinary locations only
Physical Characteristics	<ul style="list-style-type: none"> • DIN rail-mounted • Dimensions: See drawing below
Accuracy	<ul style="list-style-type: none"> • ± 0.1% at reference conditions • Additional ± 0.1% per 10 °C (18 °F) deviation from reference conditions
Fault (Fail-Safe) Condition	<ul style="list-style-type: none"> • Each output goes into fail-safe in the event of a sensor failure, missing sensor, no RF condition, RS-485 link down or field unit powered down condition. • The output module displays a fault indication if any enabled output goes into a fail-safe condition.
User-Programmable Options	<ul style="list-style-type: none"> • Range (lower value range and upper value range) for each analog output • Trim each analog output • Enable or disable failsafe for each output • Failsafe output user selectable to 3.6 mA, 23 mA, or user-specified value (analog); failsafe switch closure output is open condition only • Select RS-485 address with Accutech Manager
Input Power	<ul style="list-style-type: none"> • 10...30 Vdc • 24 Vdc @ 13.2 mA typical
Remote Configuration Interface	Accutech Manager, Windows®-based GUI software, providing network-wide monitoring and performance-management features and field unit configuration capabilities.

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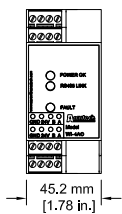
Model Code - Accutech 4AO, 8SW, 4AO-8SW

Code	Select: Module Type
TBUM297526	4AO: 4-Channel Analog Output Module
TBUM297527	8SW: 8-Point Switch Closure Output Module
TBUM297528	4AO-8SW: Combination 4-Channel Analog & 8-Point Switch Closure Output Module

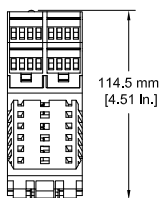
Dimensions - Accutech 4AO, 8SW, 4AO-8SW

MODULE 4AO

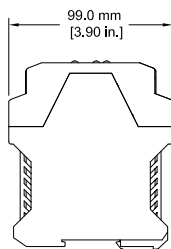
TOP VIEW



FRONT VIEW

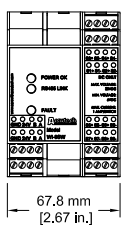


SIDE VIEW

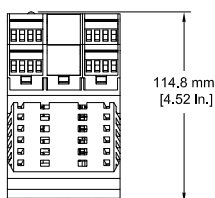


MODULE 8SW

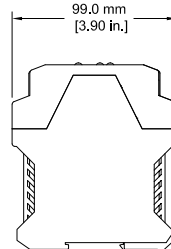
TOP VIEW



FRONT VIEW

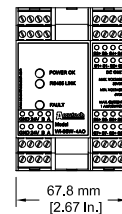


SIDE VIEW

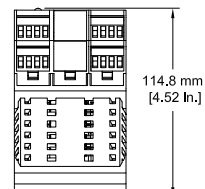


MODULE 4AO - 8SW

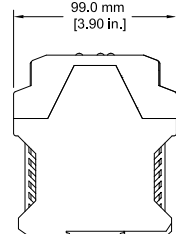
TOP VIEW



FRONT VIEW



SIDE VIEW



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