

TECHNICAL DATASHEET #TDAX180700

Intelligent Load Control Switch

2 RTD Inputs 1 AC Output Modbus RTU (RS-485) CANopen® Wi-Fi / Ethernet

P/N: AX180700

Features

- Intelligent load switching
- Modbus RTU (RS-485) master, active or passive (listen only) mode
- CANopen®
- 2 RTD inputs for temperature measurements
- 1 AC output for driving a contactor
- 1 24V/1A output
- Wi-Fi / Ethernet configuration

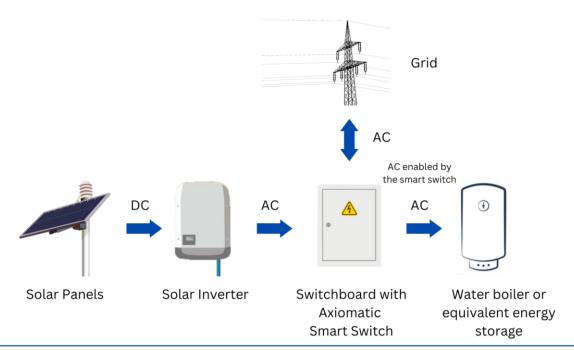
Applications

The smart switch is suitable for load switching on home solar systems. The decision to switch the load on or off is based on user configurable thresholds and instantaneous generated power reading acquired from a solar PV inverter or similar system.



Ordering Part Number

100-240 Vac, 2 RTD, 2 Output, Wi-Fi / Ethernet Smart Switch, P/N: AX180700



Technical SpecificationsSpecifications are indicative and subject to change. Actual performance will vary depending on the application and operating conditions. Users should satisfy themselves that the product is suitable for use in the intended application. All our products carry a limited warranty against defects in material and workmanship. Please refer to our Warranty, Application Limitations & Return Materials Process as described on https://www.axiomatic.com/service/.

All specifications are typical at nominal input voltage and 25 degrees C unless otherwise specified.

Specifications

Specifications	1001 01011		
Power Supply	100 to 240 Vac		
Inputs	2 RTD inputs for PT100 temperature measurements		
Outputs	1 ON/OFF solenoid output (100/240Vac, maximum 100mA) 1 ON/OFF solenoid output (24V, maximum 1A)		
	The output drives a 3-phase contactor.		
Status LEDs	Output state Controller health/mode		
Enclosure and Dimensions	Bud Industries DIN Rail Mount Multi-Board Box (P/N : DMB-4772) ABS/PC blend plastic housing Flammability Rating: UL94V-0		
	Refer to Figure 1.		
Communication	Modbus RTU (RS-485) Wi-Fi Ethernet CANopen®		
Weight	0.204 kg. (0.45 lb.)		
Temperature Rating	Operating: -40 to 85°C (-40 to 185°F) Storage: -50 to 90°C (-58 to 194°F)		
Humidity	0-99% relative humidity (non-condensing)		
Protection Rating	IP20		
Electrical Pinout	Phoenix Connector P/N: 1729144		
	Pin #	Electrical Connection	
	1	CONTACTOR_L	
	2	CONTACTOR_N	
	3	N	
	4	L	
	Phoenix Connector P/N: 1729225		
	Pin #	Electrical Connection	
	1	DOUT+	
	2	DOUT-	
	3	RTD1_P	
	4	RTD1_N	7
	5	RTD2_P	1
	6	RTD2_N	7
	7	CAN_H	
	8	CAN_L	1
	9	RS-485_TX/RX_P	1
	10	RS-485 TX/RX N	-
	11	RS-485 Ground	1
	12	Not Used	1
Compliance	RoHS Directive	1101 0000	<u>J</u>
User Interface	Webserver		
Installation	AC power – 10A fuse Follow local electrical codes.		
Mounting	DIN rail mounting		

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Dimensional Drawing

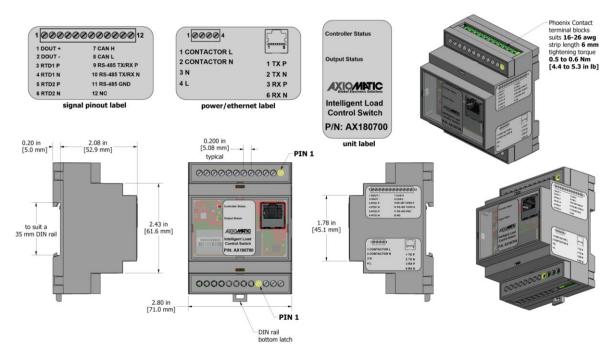


Figure 1 - Dimensional Drawing

Form: TDAX180700-04/07/2024

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