

Synergy Controller Mounting Options

The Synergy Micro, Synergy Micro 2, Synergy Quattro, and Synergy Nano are popular for controller retrofits on legacy environmental test chambers and ovens. Tidal Engineering offers panel adapters that can be used to adapt existing control panels from different manufacturers to these controllers.

On some adapters, cutouts for 1/16 and/or 1/32 DIN Over-Temperature controllers are provided. Over-Temperature controllers are recommended on all installations.

In some cases, adapting to the ¼ DIN Synergy Nano controller can be accomplished with the appropriate Synergy Micro adapter and the TE2076 Synergy Nano adapter which handles the ¼ DIN Synergy Nano. See the table below for a list of available adapter panels.

Contact the factory for other adapter options if this application note doesn't identify a solution to your specific mounting requirement(s).

Figure	P/N	Description Dimensions (W x H)	Micro	1/4 DIN	1/16 DIN	1/32 DIN
1	TE2012	Synergy Micro Articulating Mounting Arm	Y			
2	TE2062	Synergy Micro Panel Adapter, Envirotronics Systems Plus 10.75" x 10.25"	Y			
3	TE2065	Synergy Micro Panel Adapter , MicroTenn (II) Retrofit 9.5" x 15.25"	Y			
4	TE2067	Synergy Micro Panel Adapter , Thermotron 7800 19.0" x 6.97"	Y		Y	Y
5	TE2076	Synergy Nano Panel Adapter, VersaTenn III Retrofit 9.25" x 6.50"		Y	Y	
6	TE2094	Synergy Nano Panel for adapter VersaTenn Retrofit 6" x 9"		Y	Y	
7	TE2187	Synergy Micro Panel Adapter, for VersaTenn II Retrofit 12" x 9"	Y			
8	TE2209	Synergy Micro Panel Adapter, ESPEC Controller 12.5" x 11.5"	Y			
9	TE2210	Synergy Micro Adapter for Thermotron SE Series	Y			

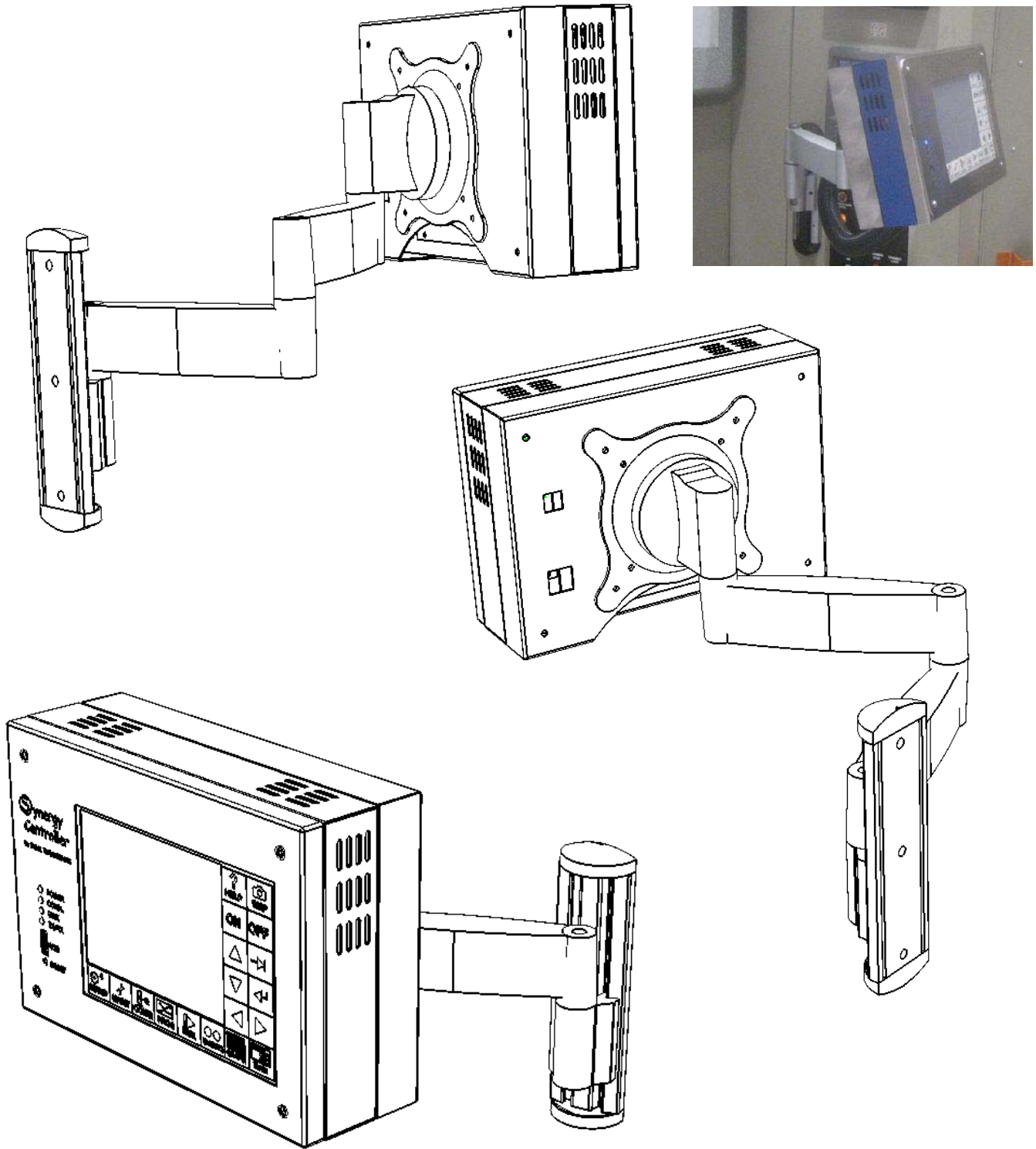


Figure 1. TE2012 Synergy Micro Articulating Mounting Arm

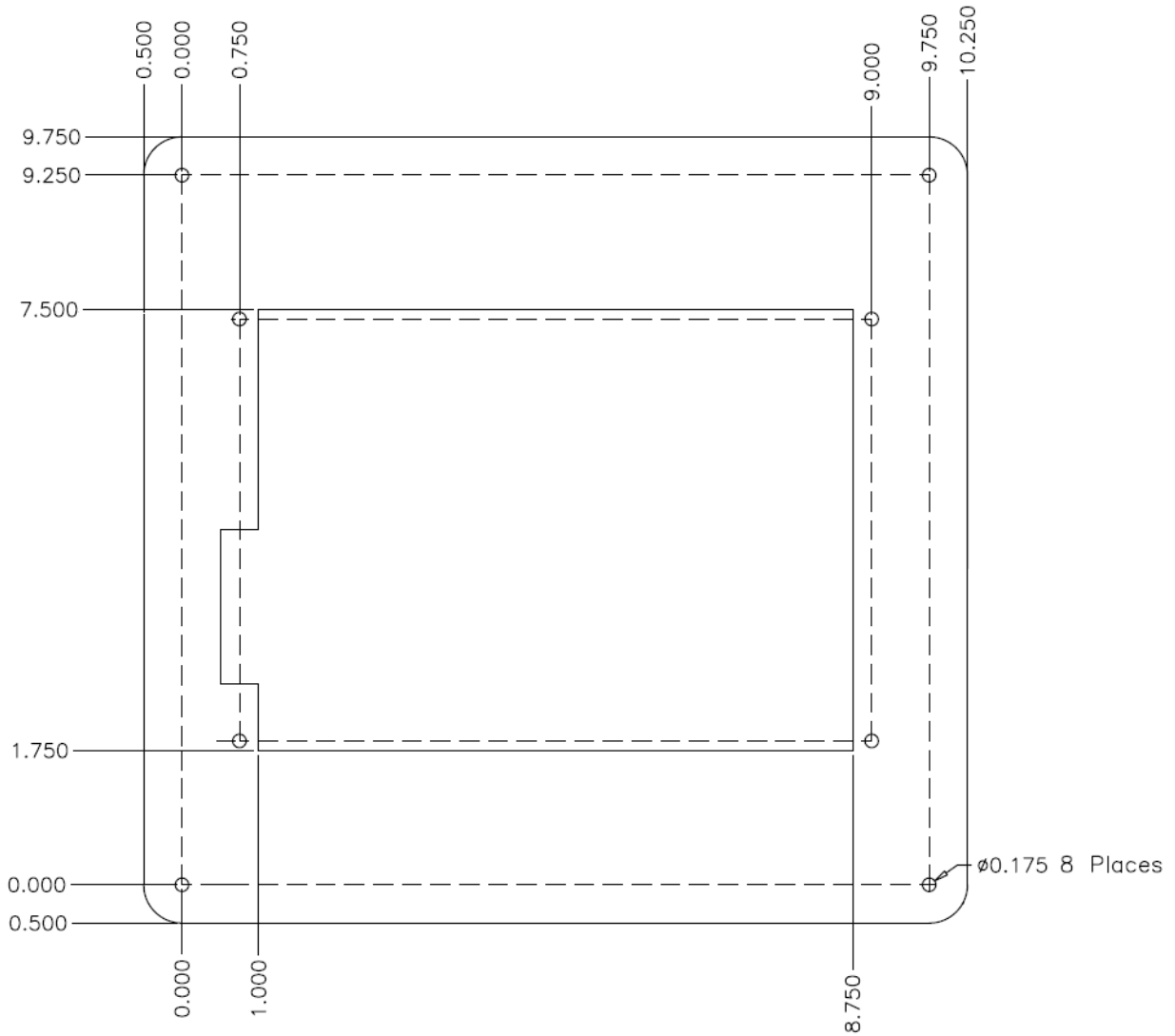


Figure 2. TE2062 - Synergy Micro Panel Adapter for Envirotronics Systems Plus

Synergy Controller



Envirotronics



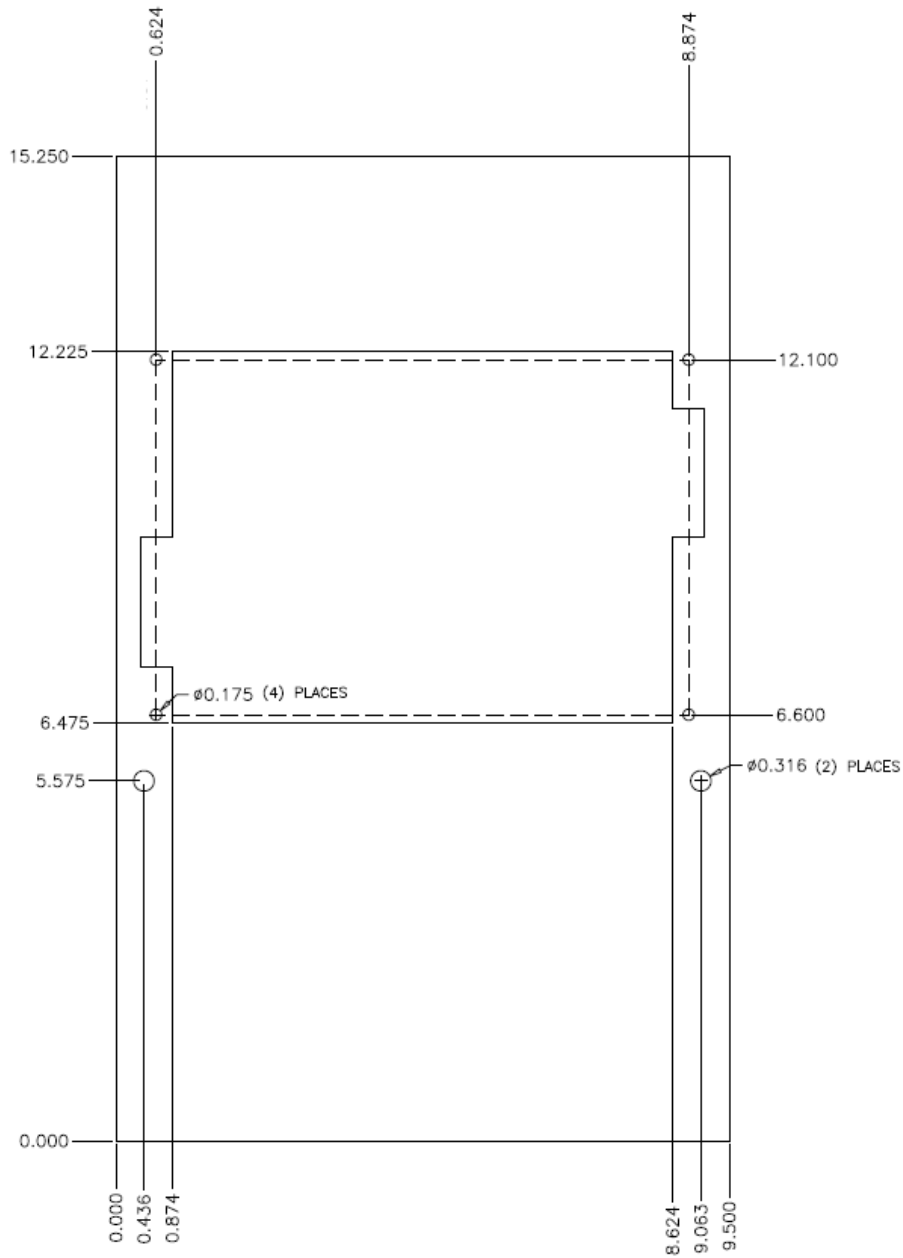


Figure 3. TE2065 Synergy Micro Panel Adapter for MicroTenn (II)

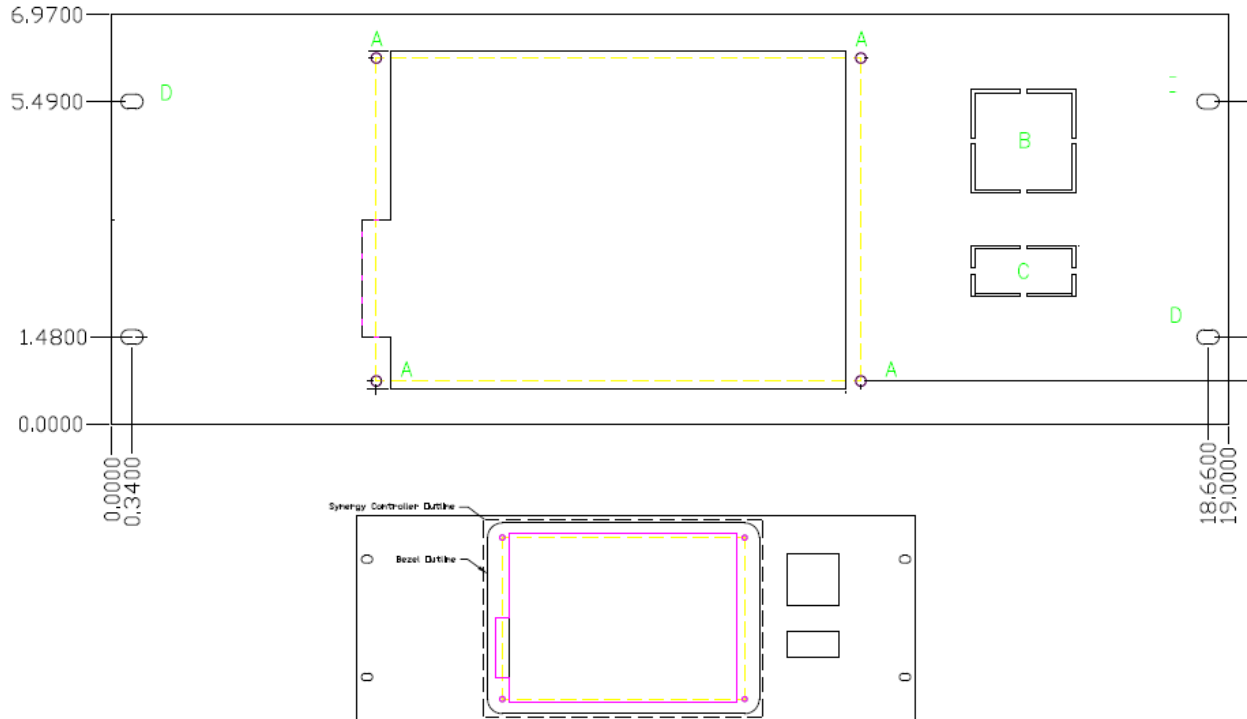


Figure 4. TE2067 Synergy Micro Panel Adapter for Thermotron 7800

Synergy Controller



Thermotron 7800



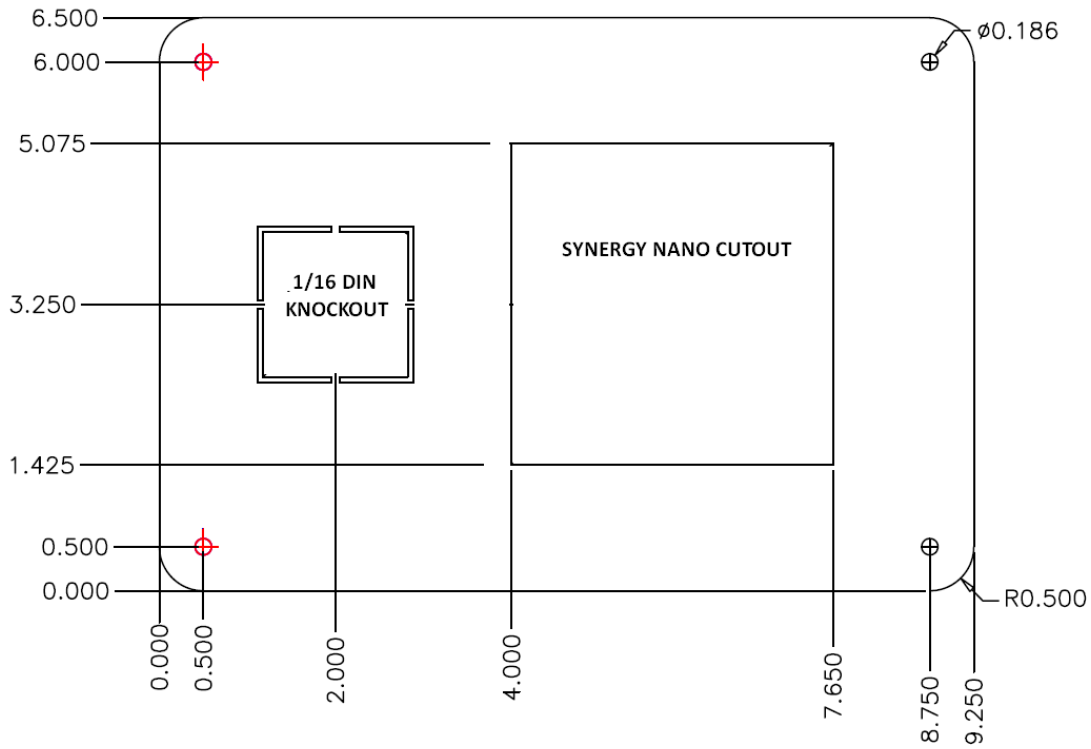


Figure 5. TE2076 Synergy Nano Panel Adapter for VersaTenn III

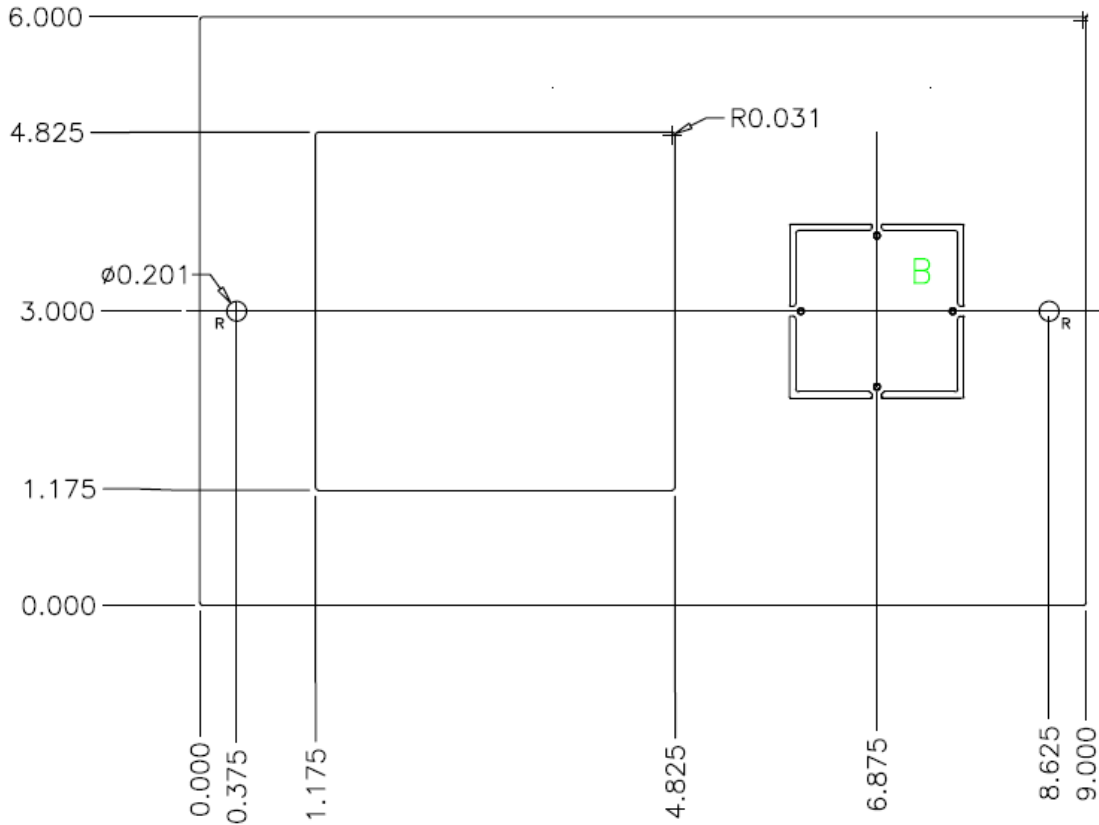


Figure 6. TE2094 Synergy Nano VersaTenn Panel Adapter, 6" x 9"

Synergy Nano



VersaTenn



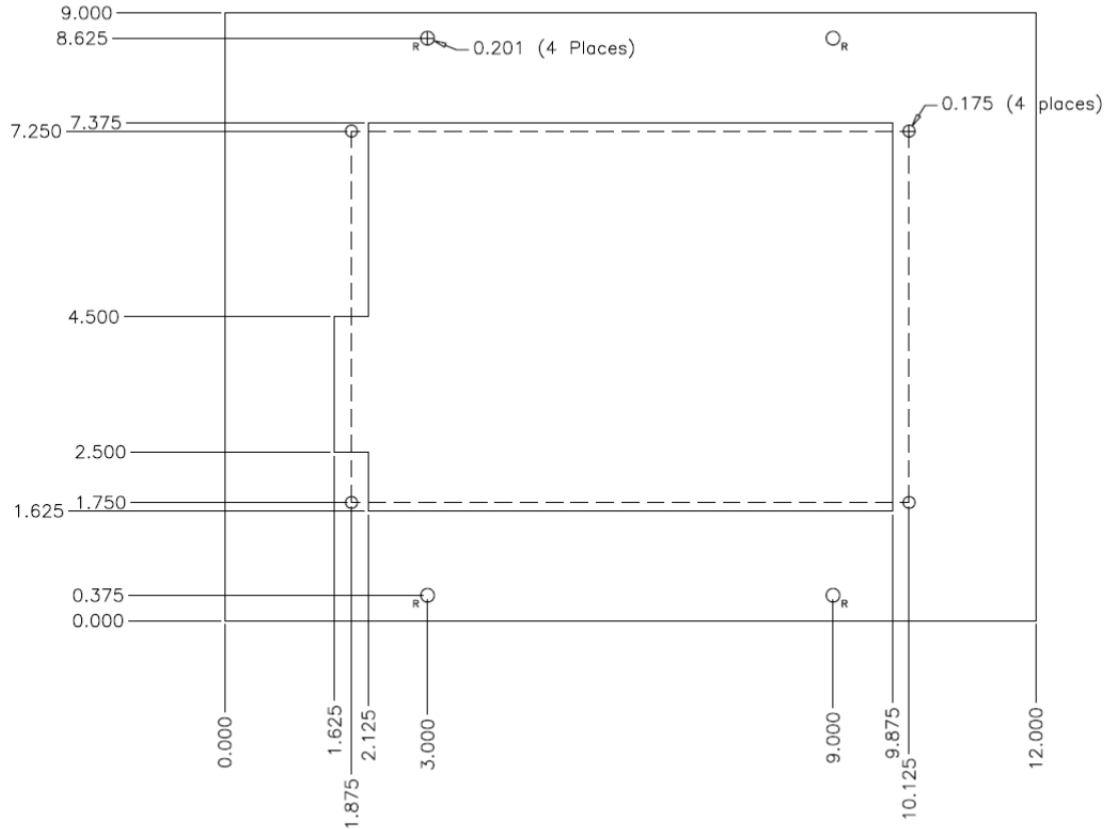
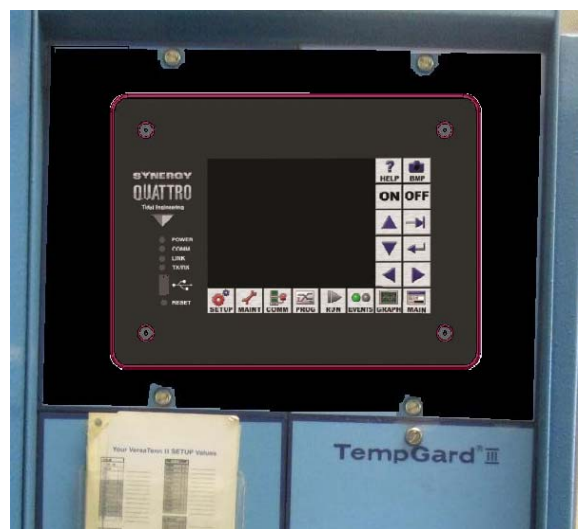


Figure 7. TE2187 Synergy Micro Panel Adapter for VersaTenn II



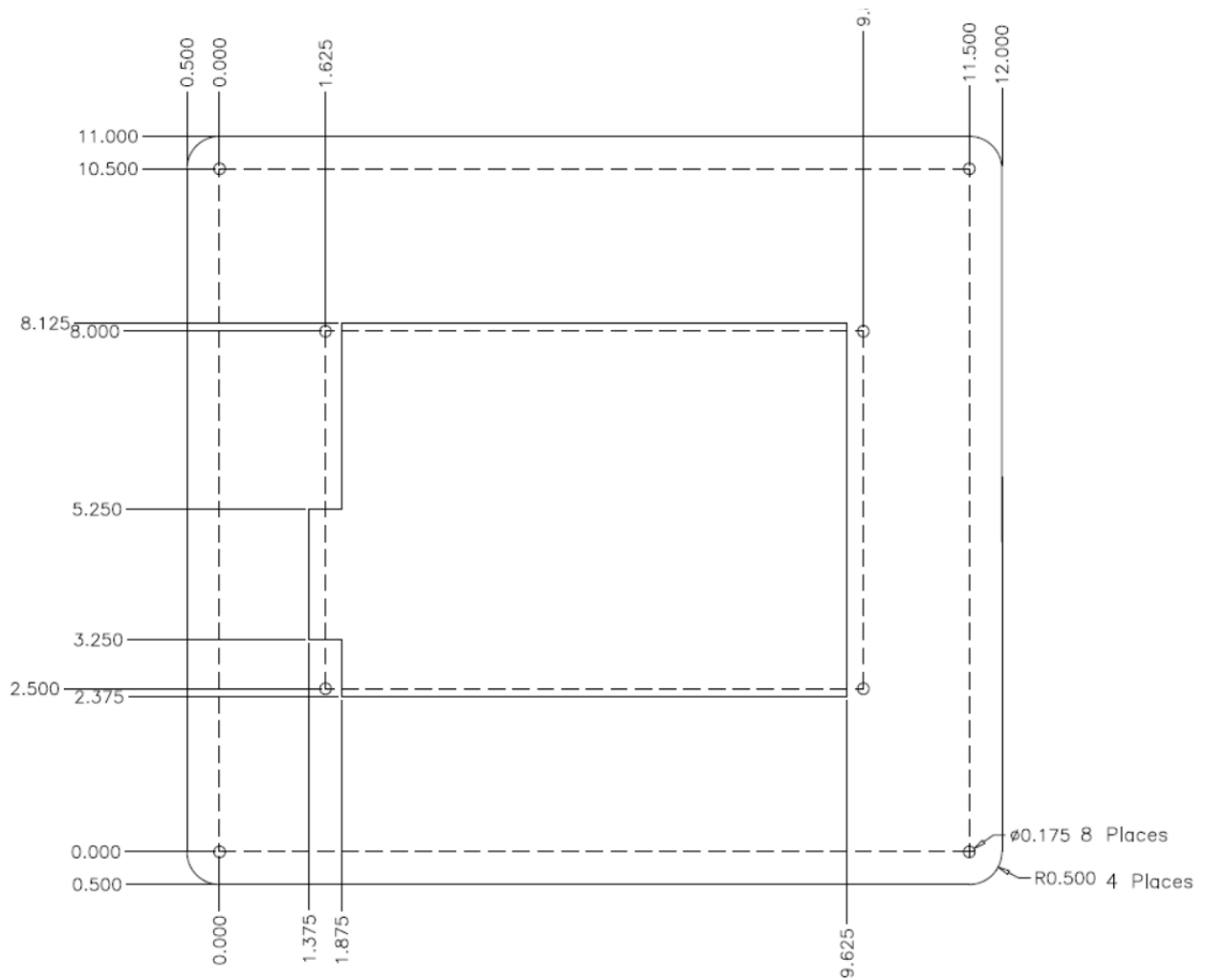


Figure 8. TE2209 Synergy Micro Panel Adapter for ESPEC Controller

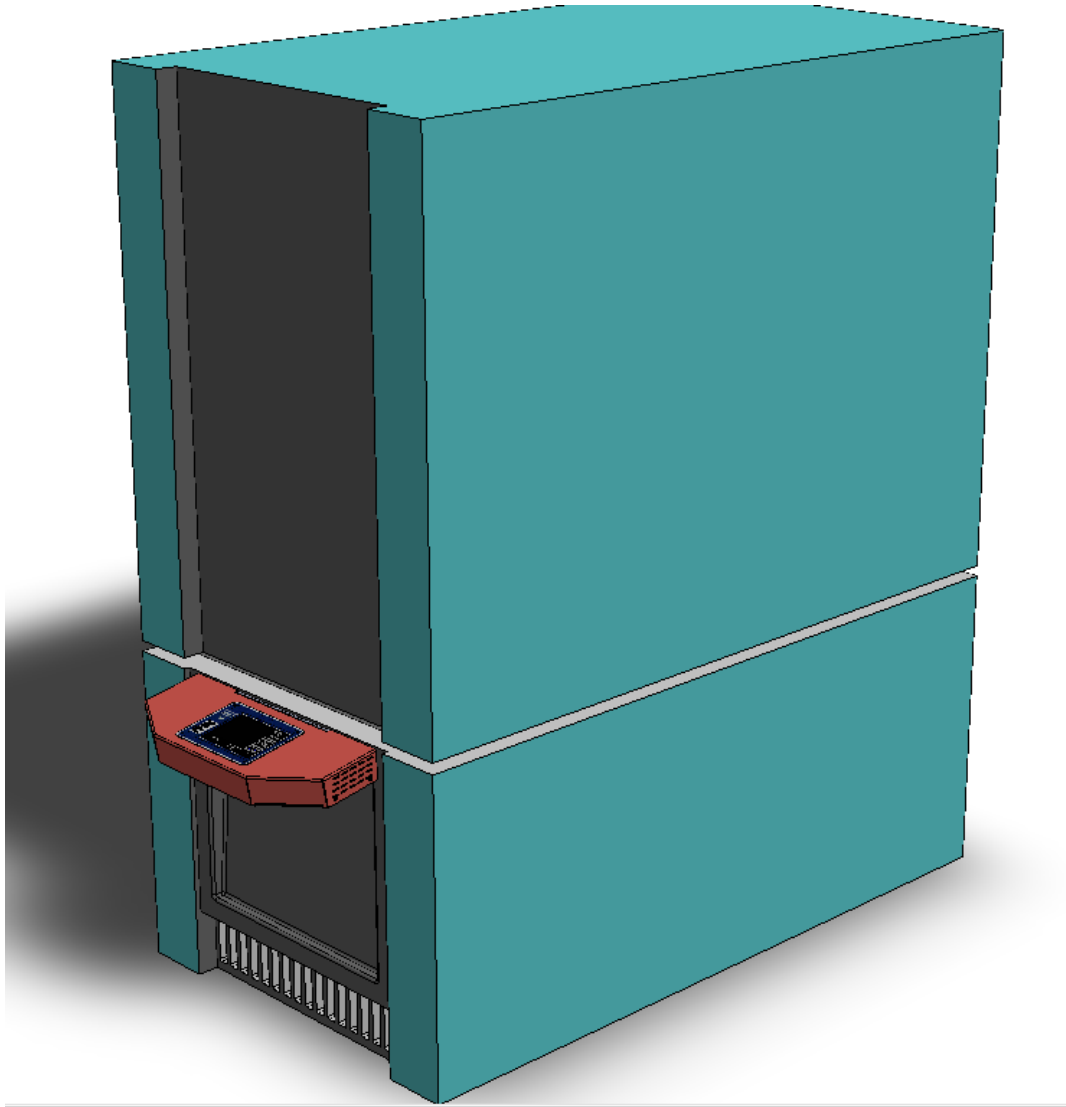


Figure 9 - P/N TE2210, Synergy Micro Adapter for Thermotron SE Series

About the Synergy Controller Family

Tidal Engineering's Synergy Controllers including the Synergy Micro 2, Synergy Quattro, and the ¼ DIN Synergy Nano provide state-of-the-art usability and connectivity for environmental test control and data acquisition. They combine the functions of a chamber controller and a data logger and are designed to improve test efficiency by supporting both factory automation and test and measurement protocols and standards.

Synergy Controller feature highlights includes:

- ➔ Color touch screen
- ➔ Ethernet, RS-232 and GPIB communications
- ➔ Built in 100 MB Data logger with USB drive support
- ➔ Data Acquisition, up to 64 T-type thermocouples (Optional)
- ➔ Built-in Web Server for remote control; WebTouch Remote™
- ➔ Compatible with Synergy Manager for PC based control, monitoring and programming.
- ➔ Built-in FTP Server for factory automation and test and measurement applications

For more information regarding these controllers please see the Synergy Controller Technical Manual on our website at <http://www.tidaleng.com/synergy.htm>

About Tidal Engineering

Headquartered in Randolph, NJ, Tidal Engineering Corporation has been designing and building award-winning embedded hardware and software for test and measurement and data acquisition applications since 1992. The company is recognized for technical expertise in such areas as environmental test chamber control, Embedded IEEE 488, and turnkey SCADA (Supervisory Control and Data Acquisition) systems.

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