Temperature Controllers

5240, 5300 & 5400 SERIES TECSOURCE

TEMPERATURE CONTROLLERS

The **TECSource Series** of temperature controllers provide a range of capable temperature controllers with very stable control and an easy-to-use interface. With powers ranging from 28W to 960W, a **TECSource** temperature controller is sure to fit your test and measurement needs.

Power to spare

With up to 960W versions available, buying temperature control power has never been less expensive. The extra power allows you to push your test setup farther without the typical costly upgrades normally associated with that amount of TEC power.

Excellent Stability

With 0.004°C stability, the **TECSource** becomes a transparent part of the process and not another variable you need to manage.

AutoTune

Every **TECSource** includes the AutoTune functionality for automatic PID calculation. Use as-is or as a starting point for further process refinements. Either way, you can quickly get to stable system configuration.

Built-In Fan Controller

All controllers include a built-in adjustable DC power supply which can be used to power external fans often found in test fixtures.

5240/5300 Quick Specifications

Model	Amps	Volts	Output Connector	Therm	RTD & LM335
5240	4	7	DB15	●	
5305	5	12	DB15	●	●
5310	10	12	DB15	●	●
5300-08-24	8	24	DB15	●	●
5300-10-18	10	18	DB15	●	●

General Specifications

Remote Interfaces	USB (all), RS-232 (5300 only)
Size (HxWxD) [in (mm)]	5240: 1.82 (47) x 8.5 (215) x 11 (280) 5300: 3.5 (90) x 8.5 (215) x 12 (305)

At a Glance

Automatic PID Calculation
0.004°C Stability
28W to 960W of TEC Power
Built-in Fan Controller

Fully Adjustable PID Control

All **TECSources** offer factory defined gain settings for temperature control. Need more control? Switch to PID gain and you have individual adjustment of each value in the PID circuit, providing fine adjustment of the control loop.

Easy To Use

Unlike other instruments in their class, the **TECSource** employs a dot-pixel character display provides easy-to-read status, readings, and errors. No longer do you need to get out the manual to figure out how to set the current limit, or to understand what error 114 is; you can read it directly on the display in plain English. This allows the user interface to be greatly simplified and at the same time easier to use.

Computer Interfaces

All **TECSources** come standard with a USB interface, and the **5300** and **5400** also include RS-232 interfaces. They are command set compatible with other manufacturers' drivers, allowing you to leverage any existing software you may have already developed.

5400 Quick Specifications

Model	Amps	Volts	Output Connector	Therm	RTD & LM335
5400-15-28	15	28	17W2	●	●
5400-20-56	20	56	17W2	●	●
5400-30-28	30	28	17W2	●	●

General Specifications

Primary Sensors	3 Primary Sensor Inputs
Auxillary Sensors	4 Auxilliary Sensor Inputs
Remote Interfaces	USB, RS-232, and Digital I/O
Size (HxWxD) [in (mm)]	3.5 (90) x 12 (305) x 14 (356)

Measure Everything

Unlike many temperature controllers, the **TECSource** measures current, temperature, *and voltage*. Voltage measurement is often omitted in low cost temperature controllers. The **TECSource** is low cost, but not low performance.

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OEM Controllers

COMBOPAK SERIES LASER DIODE CONTROLLERS
TECPAK SERIES TEMPERATURE CONTROLLERS
LASERPAK SERIES LASER DIODE DRIVERS

The **Pak** Series controllers are Arroyo's OEM solution for laser and TEC control. Each offers similar capabilities to the comparable ComboSource, LaserSource or TECSource controller, but in a smaller, lower cost instrument for custom and embedded systems.

485 LaserPak Quick Specifications

Model	Amps	Volts	Output Connector
485-0.1-10	0.1	10	DB9
485-0.5-10	0.5	10	DB9
485-01-10	1	10	DB9
485-02-15	2	15	DB9
485-04-08	4	8	DB9
485-08-05	8	5	DB9

General Specifications

Remote Interfaces	USB, RS-232, and Digital I/O
Size (HxWxD) [in (mm)]	3.0 (76) x 4.5 (114) x 8.5 (216)

Powerful Analog Interface

All **Paks** include USB & RS-232 computer interfaces for full PC control. Unique to **Paks** is a powerful analog interface that offers full control and monitoring of the Pak without the need for a PC. Configure your limits and control settings over the computer interface during factory setup, and rest assured your device will be properly protected once it's in the field.

685 ComboPak Quick Specifications

Model	Amps	Volts	Output Connector
685-0.1	0.1	10	DB9
685-0.5	0.5	10	DB9
685-01	1	10	DB9
685-02	2	3.5	DB9

General Specifications

TEC Power, Connector	3A / 3.5V / 10.5W, DB15
Sensors Supported	Thermistor
Remote Interfaces	USB and Digital I/O
Size (HxWxD) [in (mm)]	2.6 (66) x 4.5 (114) x 8.5 (216)

585 TECPak Quick Specifications

Model	Amps	Volts	Output Connector	Therm	RTD
585-04-08	4	8	DB15	●	●
585-05-12	5	12	DB15	●	●

General Specifications

Remote Interfaces	USB, RS-232, and Digital I/O
Size (HxWxD) [in (mm)]	3.0 (76) x 4.5 (114) x 8.5 (216)

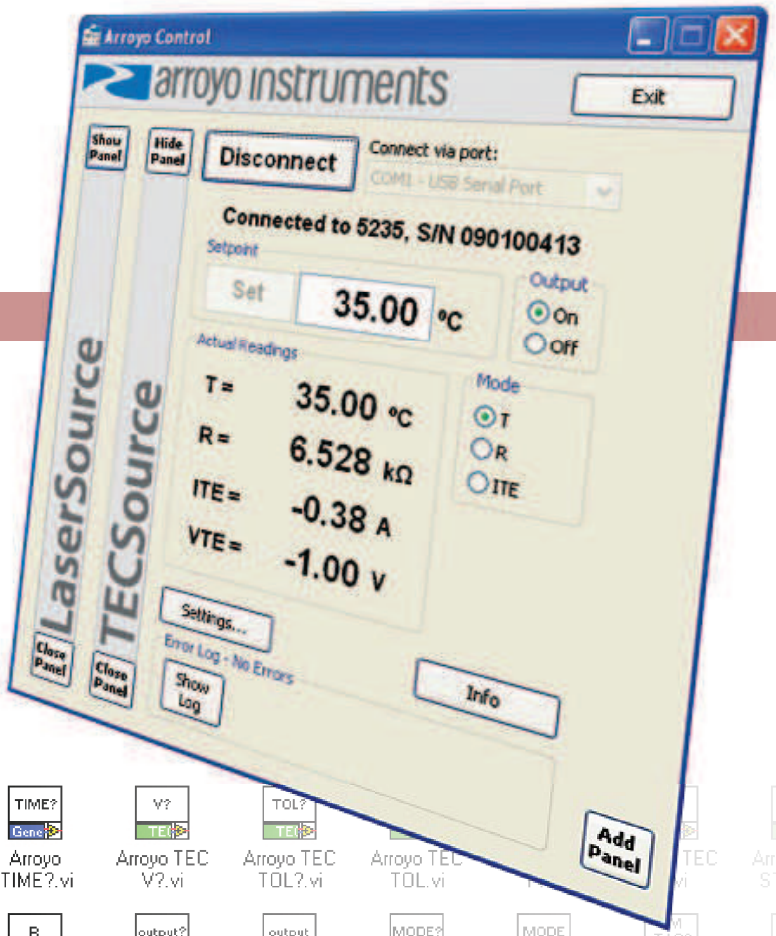
Software

ARROYOCONTROL & LABVIEW DRIVERS

Ever wanted to control your instruments from a PC, but didn't have the programming experience needed to write your own application? Enter ArroyoControl...

ArroyoControl

We're excited to have a solution for you! Our Arroyo Control application gives you full control over your laser driver or temperature controller, providing all the settings, limits, and adjustments of the instrument in an easy-to-use Windows application.

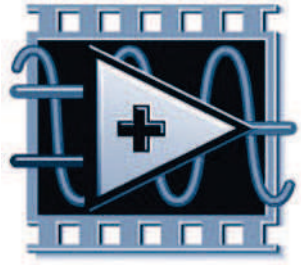


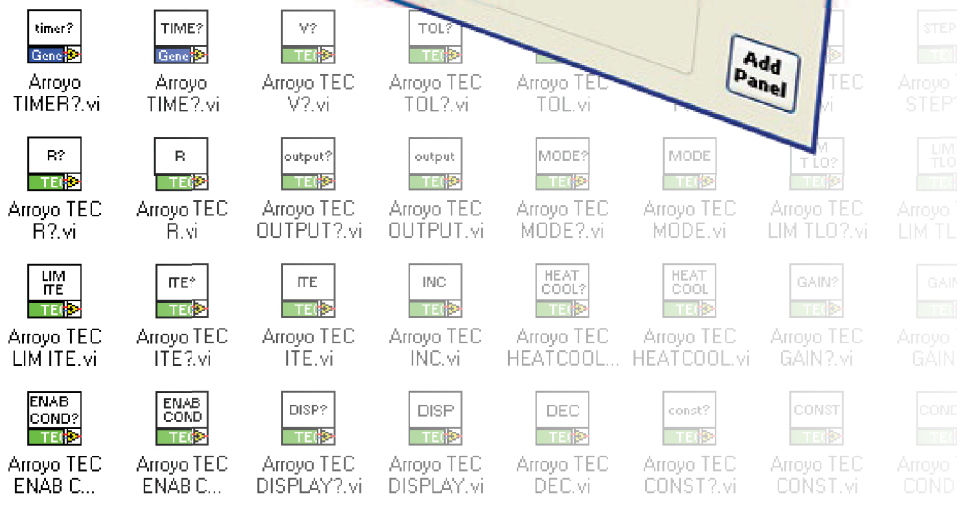
Best of all, it's FREE!

With Arroyo Control, you can connect to multiple instruments, limited only by the size of your screen. You can mix and match the types of instruments controlled to fit your application, and all settings are automatically saved.

LabVIEW Drivers

Developing applications in LabVIEW? We have a large library of sub-VIs that implement virtually every remote commands our controllers support. Available as a free download off our web site, and included on a CD with every product we ship.





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