Fast Temperature Programmer

- For use with nickel-wire and nickel-clad resistively-heated columns
- Programmable 8-state temperature profile
- Compatible with any GC or analyzer
- User-friendly Windows-based control and monitor program
- OEM and end user versions available

General Description

The VICI fast temperature programmer is designed for precise temperature programming with rapid heating and cooling of a low mass nickel-clad or nickel-wire column. The column is resistively-heated by applying a low-voltage current to the column coating or wire, eliminating the need for a traditional GC column oven and heating element with their power and space requirements. Column temperature is controlled by regulating the amount of current, with a small fan for quickly cooling the low-mass column to near-ambient temperature.

These features plus speed, compact size, and low power requirement make this unit an ideal component in fast, portable GCs, but it can be easily employed on any GC or analyzer.

Specifications

- Power supply
- Programmable temperature states
- Maximum ramp rate:
  - 5m column
  - 15m column
- Accuracy:
  - Isothermal
  - Programmed
- Interfaces
- Fan modes
- Transfer line
- 8
- 1,200°C/minute
- 500°C/minute
- 0.1°C
- < 0.5°C (most cases)
- USB
- 1°C
- 4

Control Program

The Windows-based control program facilitates simple creation of temperature profiles with as many as eight states, and allows multiple columns to be tuned with each configuration saved for reloading. Multiple data parameters can be graphed, with data logged and analyzed.

Product Number

Fast temperature programmer FTP-100
**n-C10 to n-C40 Hydrocarbons**

Column: VB-5, 5 m x 0.10 mm x 0.10 μm, Nickel-wire  
70°C to 360°C at 120°C/minute  
Detector: FID, 350°C  
Carrier: 3.2 ml/min helium  
Injector: Split 40:1, 50 psi, 280°C

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**#2 Diesel plus Mineral Oil**

Column: VB-5, 5 m x 0.10 mm x 0.10 μm, Nickel-wire  
70°C to 360°C at 120°C/minute  
Detector: FID, 350°C  
Carrier: 3.2 ml/min helium  
Injector: Split 40:1, 50 psi, 280°C