

Tunable Filter Controller | FFP-C



Applications

- Spectrum Scanning
- Wavelength Locking

Features

- Scan or dither mode capability
- Scan mode > 50V (> 4 FSR range)
- Built-in photodetector with FC/APC input (other inputs available)
- Digital voltmeter for piezoelectric transducer monitoring
- Rear BNC outputs for oscilloscope monitoring
- Bias voltage control for any filter
- Automatic wavelength locking with filters of finesse values up to 750

Description

The Micron Optics FFP-Controller is an electronic piezoelectric actuator driver and optical signal processor specially designed for the FFP Tunable Filter (TF or TF2) or Scanning Interferometer. The Micron Optics FFP-C can be used in several modes of operation.

- Manual DC Voltage Driver (bias control only)
- Manual DC + AC Voltage Driver (bias, amplitude and frequency controls)
- Automatic Wavelength Locking to Laser Input Source (via a closed phase lock loop)



The FFP-C is an excellent tool for first time users of fiber Fabry-Perot filters to become familiar with filter technology and operations. It also can be used as a lab bench tool in the research of advanced capabilities of tunable filters.

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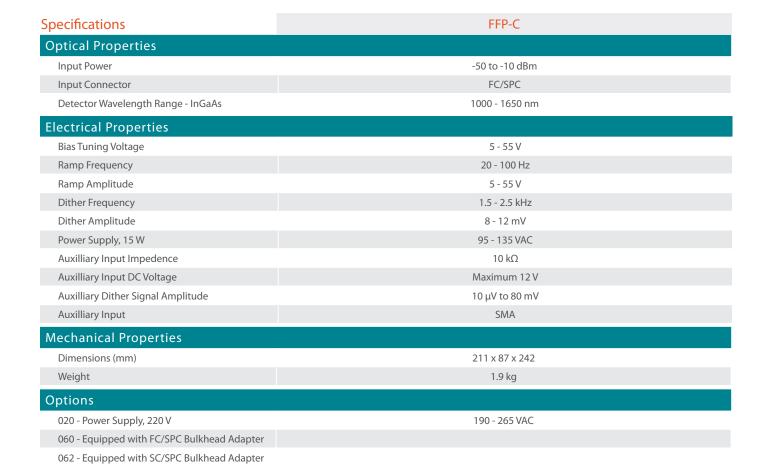


Fig. 1 Block Diagram & Circuit Schematic

