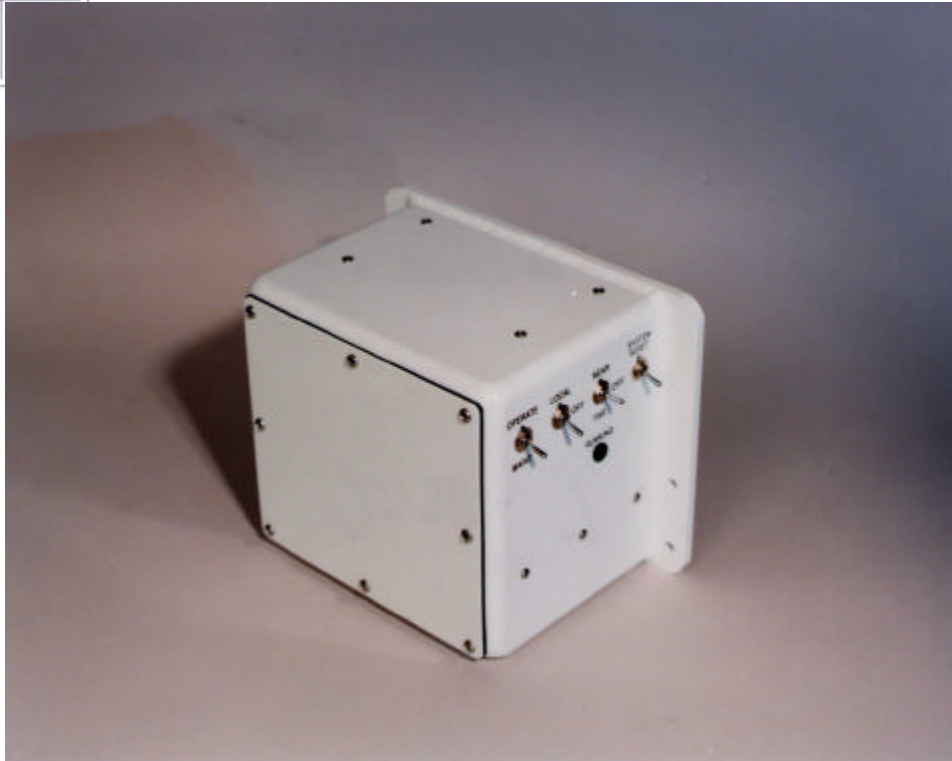




## Focus Controller for Range Lenses



- The Focus Controller Module is an embedded micro-controller servo system used to position a focusing element in the Brashear LP series of catadioptric range lenses. The Lens Focus Controller receives commands through a serial communications interface to a host computer and is designed to support a number of different command protocols.
- Lens operation can be either Focus on Range or Focus on Position.
- The Model FR-1 Lens Focus Controller can be used with existing Brashear LP SR-50, SR-100, and SR-150 lenses with the current focus module.
- The Model FR-2 Lens Focus Controller can be incorporated into the new SR-100W.
- Features a COTS micro-controller and micro-controller interface board, with analog inputs, digital inputs and digital outputs.
- Serial interface is configurable to RS-232, RS-422 or RS-485 at selected common baud rates and line parameters.
- External focus electronics no longer needed
- Lens focus characteristics and performance constants are field changeable via the maintenance serial link.
- Buffered analog inputs and digital I/O available for custom applications
- With a compact, self-contained design and a simple serial communications interface, it is ideal for field upgrades.



# Lens Focus Controller

## Lens Focus Controller Specifications

### Environmental:

Operating Temp. -40 to +50 deg C  
 Humidity Non-condensing relative to 95%  
 Storage Temp. -40 to +70 deg C

### Positioning:

Range Lens dependent  
 Resolution 12 bits  
 Accuracy Lens dependent  
 Modes Local or Remote  
 Focus on Range or  
 Focus on Position

### Interface:

Electronic: RS-232/RS-422/RS-485, 19200,  
 9600 or custom baud  
 WSMR (ASCII), China Lake or  
 custom protocol

Power: 120 VAC or 24 VDC (18-33  
 VDC)

Position Input: 10 k multi-turn potentiometer

Motor drive: 12-24 VDC PWM

Analog Inputs: 4 buffered and 2 non-buffered  
 analog inputs available

Digital Inputs: 5 contact inputs available

Digital Outputs: 8 TTL DOs available for  
 expansion

### Dimensions:

H/W/L 6.25/8.00/5.00 in

Weight 4.5 lb

### Models:

FR-1 WSMR protocol, SR-50, 100,  
 150

FR-2 WSMR protocol, SR-100W

FP-1 NAWC China Lake protocol,  
 SR-50, 100, 150

FP-2 NAWC China Lake protocol,  
 SR-100W

