



**FLANN MICROWAVE**

## Controller Processor

Series CP2021

### Applications

- Automated production testing of microwave radios and satellite communication payloads
  - Fade margin testing
  - Gain control
  - Bit Error Rate
- Automated test and measurement systems
- Remote control systems
- Extraordinary resolution & settability at low attenuations



Model CP2021

Control Processor Model CP2021 controls all Flann programmable products including Rotary Vane Attenuators, Phase Changers and Polarizers.

### Attenuator Performance

- 0 dB to 60 dB in less than 1.1 seconds
- 0 dB to 120 dB in less than 2.2 seconds (2 attenuators connected in series)
- 3 GHz to 140 GHz (in waveguide bands)
- IEEE488.2 GPIB Bus and USB Control

Will position to:

0.01 dB between 0 dB & 21 dB

0.02 dB between 21 dB & 30 dB

0.05 dB between 30 dB & 48 dB

0.1 dB between 48 dB & 60 dB

### Phase Changer Performance

- Continuous phase change in either forward or reverse direction
- Smallest phase change increment is 0.2°
- Rate of phase change is 1480 degrees per second

#### **FLANN MICROWAVE LTD.**

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## **Controller Processor**

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### **Controlling Cable Requirements**

A conversion is required when driving

- Series 610
- Series 611
- Series 660 instrumentation using a CP2021
  
- Unchallenged accuracy, reliability and repeatability
- Built in self test and diagnostics
- Control of 1 or 2 attenuators giving a possible attenuation range of 120 dB
- Universal line input, automatically switched between 115 V and 230 V
- Steps mode operation allows greater control over instrument positioning
- Recognises any Flann programmable products when connected to drive ports
- Extended drive cable capability to 20 meters, with extended (slower drive) up to 50 meters
- HS488 High speed GPIB capability – up to 8 Mb/s
- Ability to learn previous CP92 series GPIB commands

### **Related Products**

- **Series 620 Programmable Rotary Vane Attenuators** without helical readout scale
- **Series 621 Programmable Rotary Vane Attenuators** offering the additional feature of a high resolution visual helical scale.

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