CPC

Center Position Controller for vibration exciters

Applications

- ✓ center position control of vibration exciters used in vibration testing and in calibration systems
- ✓ safety and monitoring functions for vibration exciters

Range of use

- ✓ calibration laboratories for vibration measuring equipment
- ✓ environmental test laboratories using vibration test equipment

Features

- ✓ for use on vibration exciters operating in horizontal and vertical directions
- ✓ monitoring of vibration displacement for exceedance of maximum displacement
- ✓ indicator of center position
- ✓ monitoring of power amplifier
- ✓ setup of certain load-independent center positions
- ✓ monitoring of air pressure in air bearing vibration exciters
- ✓ modular system configuration

Specification

The CPC Center Position Controller automatically controls the center position of a vibration exciter irrespective of its load. It is essential to employ a CPC-Type controller, especially when working with an air bearing vibration exciter without any integrated automatic load compensation. The control characteristics of the CPC can be adjusted, so it can easily be adapted to different types of vibration exciters in vertical or horizontal operation directions. The CPC contains a number of safety and monitoring functions that efficiently prevent any overload or damage of the connected system. It is intended for vibration control systems with a DC-enabled power amplifier.

Technical Data

Internal gain	-40 dB ... +6.6 dB
Bandwidth	DC ... 25 kHz (-3 dB)
Input voltage, max.	±12 V
Center setting range	±20 % of maximum displacement
Power supply	100 V ... 240 V, 50 Hz or 60 Hz
Power consumption	50 W
Rack dimensions	1 U, 19"
Operation	• Controls on front panel • Remote control via Ethernet / web interface
Interface	• Ethernet interface • Multi I/O • PLC interface
Position measuring system (three options)	• Optical wedge (CPC-G) or • Laser (CPC-L) or • Triangulation sensor (CPC-T)
Weight	3.2 kg (7 lbs)