

Applications

CGEO-APR Automatic Pendulum Readout is designed to make accurate measurements of the horizontal/ vertical movements of dams and dam foundations, abutments, bridges and piers, towers, nuclear power stations, tall buildings, etc.

Description

The model CGEO-APR Automatic Pendulum Readout consists the functions of program-driving, signal-disposal, data-logging, communication, etc., which makes the system real non-contact planar measurement.

The model CGEO-APR Automatic Pendulum Readout has a high

accuracy, non-excursion, high stability, easy installation and profound moisture-proof capability.

A LED display makes the user get the X/Y/Z readout from the system.

The output of the system is 4~20mA /RS 485.

Key Features

- ◆ Robust design and reliable
- ◆ Manual or automatic readouts available
- ◆ Simple to use
- ◆ Long-term reliability
- ◆ Can read X, Y and Z movement



Comprehensive information about this product and our full range is available at www.cgeo-instruments.com
If you would prefer to speak with someone directly, please call +852 2206 0092 or email info@cgeo-instruments.com

Main Specifications

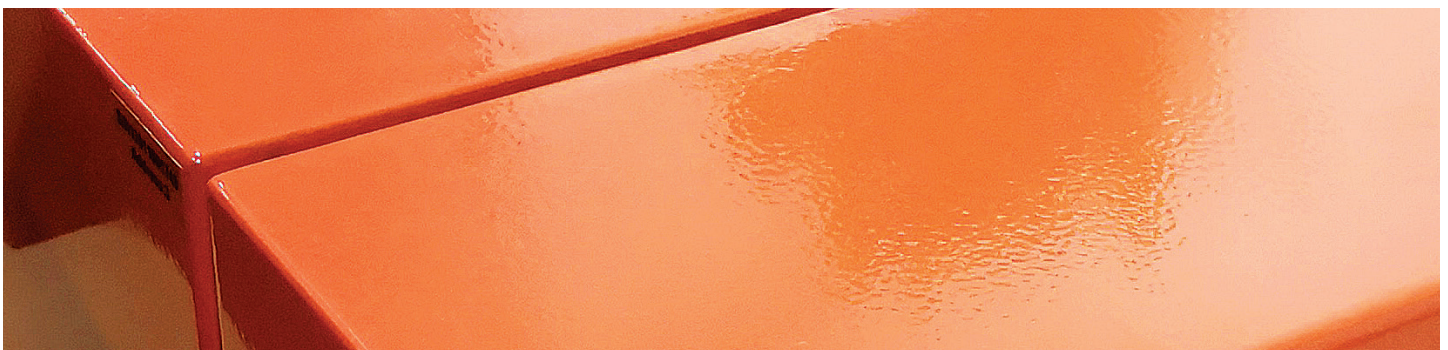
Model	CGEO-APR-1	CGEO-APR-2	CGEO-APR-3
Range	(X,Y): 50x50mm	(X,Y): 50x100mm	(X,Y,Z): 50x100x50mm
Resolution	0.02% F.S.		
Accuracy	±0.1mm		
Display	LED		
Operating Temperature	-15 to + 60 °C		
Output	RS-485 /4~20mA		
Power Supply	AC85~265V, 50/60Hz		
LxWxH	380x330x145mm	425x375x220mm	425x375x220mm

Operation

The Pendulum Readout uses two high-resolution linear array CCDs (charge coupled device) as the basic sensors. Two collimated light sources at 90° to each other are directed onto two photo-sensitive CCD screens. The shadow of the pendulum wire falls on the CCD sensors and an automatically generated scan of the CCD pixel map records and digitally stores the coordinates of the shadow in the built-in computer.

This information is then converted to an analog signal that enables the position of the pendulum wire to be displayed locally in tenths of millimeter units on two LED panels mounted in the console.

The signal can also be transmitted via 4-20 mA output or RS-485 output to a remote readout site.



International Manufacturer of Geotechnical & Structural Instruments

CGEO INTERNATIONAL LIMITED
 Room 06, 13A/F., South Tower,
 World Finance Centre, Harbour City, 17
 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong.

Tel: +852 2206 0092
 Fax: +852 3003 0133
 Http: //www.cgeo-instruments.com
 Email: info@cgeo-instruments.com

CGEO INTERNATIONAL LIMITED Registered Office: Room 06, 13A/F., South Tower, World Finance Centre, Harbour City, 17 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong.