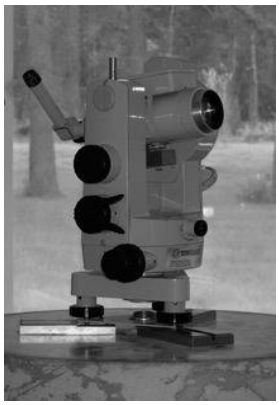
GTEKGEO INSTRUMENT PTE. LTD

FLUXGATE LDC - A20



Overview

Fluxgate Theolodite LDC - A20 is a fluxgate magnetometer mounted on a non-magnetic theodolite and geomagnetic acquisition system to perform absolute measurements of declination and inclination. It is used to calibrate compasses or to periodically calibrate continuously recording magnetic variometers in magnetic observatories.

Fluxgate Theodolite unit consists of a non-magnetic theodolite, a linear magnetic fluxgate core from DTU Space, and embedded data acquisition based on the Linux system. Magnetic adjustments and calibrations are carried out at the independent geomagnetic observatory and geodetic laboratory.

The angle at which its electronic fluxgate magnetometer reads a minimum value, is compared to a sighting through its optical theodolite. True north is determined by sighting a true north reference target mounted some distance away, or is derived from celestial navigation calculations on a sighting of the sun or another star.

Features

- **Easily find the null positions**
- **The digital voltmeter is back-lighted to ease the reading**
- **Easy Installation & Maintenance**
- **Full Maintenance Support**

Technical Data

SENSOR	
Type	Fluxgate LDC-A20
Number of axis	One
Measuring range	± 199.9 nT
Resolution	0,1 nT
Null positions alarm	Buzzer
Power Supply	12 V
Power Consumption	2 Watt
Operating temperature	-10 to 40 °C
Length of Cable	5 Meter

THEODOLITE	
Material	Non-magnetic
Maginification	30x
Image	Erect
Field of view at 1000 m	27 m
Shortest focusing distance	1.7 m
Multiplications constant	100
Sensitivity of plate level	30" per 2 mm
Direct reading	6" at 360°Hz
Tripod dimensions / weight	16x100x160 cm / 5.6 Kg

Software DIM Calculator	
Absolute observations	Declination and Inclination
Declination feed	WU, ED, WD, EU
Inclination feed	NU, SD, ND, SU
Units feed	Time, Deg, Min, Sec
Operating system	Windows 10
Reporting format	ASCII and CSV
File transfer	FTP, MQTT, HTTP, and Socket TCP/UDP

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