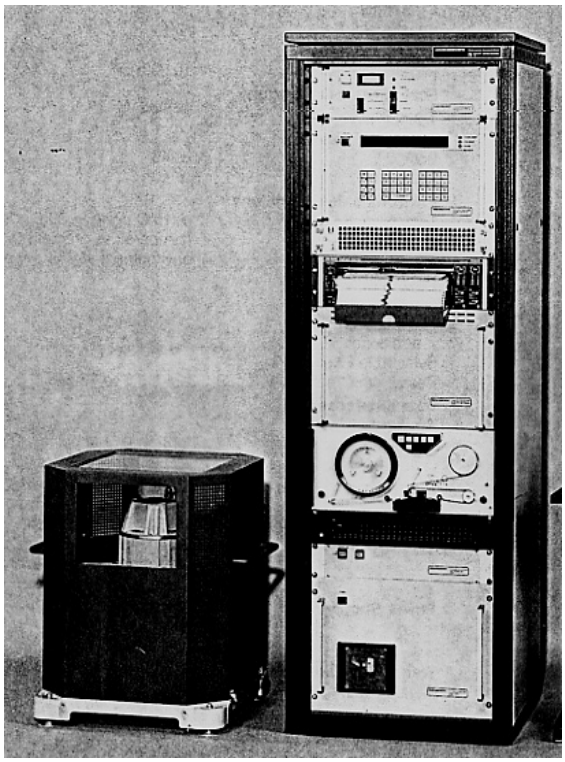
BODENSEEWERK
SEA GRAVITY METER SYSTEM KSS 31

The Gravity Meter System Kss 31, a high performance instrument for marine/air gravity measurement, has its application in oil prospecting and earth geophysics exploration.



The system consists of two main assemblies: the Gyro-stabilized platform including the gravity sensor and the Data handling & control system.

The following features will characterize the system:

High Accuracy —

Using best precision mechanics and software controlled electronics with short recovery time for maximum accuracy after a profile change. Valuable measurement during turn-maneuvers.

Ease of Operation —

- Freely programmable features via keyboard at the central processor unit
- Automatic run/up/down procedure
- No adjust required after a modular component change
- Continuous self-test of the system with status print out
- Fail-safe operational logic avoiding any system damage in failure case
- Ease of maintenance due to Built-in test facility.

Special Capability —

On-line pre-processing capability of Eoetvos, Free Air, and Bouguer corrections if appropriate NAV-DATA are available to the system.

Technical Specifications

Accuracy on Profile for Vertical Acceleration (mgal RMS)	Dynamic** (mgal RMS)	Effective* * (mgal RMS)
<15.000	0,5	0.2
15.000 — 80.000	1	0.4
80.000 — 200.000	2	0.8
Accuracy during Turn for Vertical Acceleration (mgal RMS)		
15.000 — 80.000	2.5***	1***

Drift Rate (mgal/month)	<3
Measuring Range (mgal)	10.000
Scale Factor Calibration Standard	<0.5 %
Platform Freedom Roll	± 40^0
Pitch	± 40^0
Environmental Conditions Temperature	+ 15^0C up to + 30^0C (temperature gradient for the environment < 2^0C per hour)
Response Time Gravity Sensor: Low Pass 1st Order	t = 36 sec
additional Selectable Filters: Bessel 4th Order	t =10,5 to 75 sec
Data Interfaces **Analogue** Output for Signal Monitoring (selectable via keyboard)	for 2 to 6 channel strip chart recorders (± 5V)
Digital Data Interface	Standardized V24 or RS232C Serial Interlace for Data Transmission from ships Navigation System to Magnetic Tape Recorder to Printer or Teletype
Power Supply	220 V; 50/60 Hz; 1 Ph or 11OV; 60 Hz; 1 Ph
Weight and Dimensions Platform with sensor	72 kg 52 x 52 x 69 (cm^3)
Data handling subsystem (19' rack)	200 kg 55 x 65 x 183 (cm^3)

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