

## DEVICES

### GEOSTAR Series

## Velocity and position counter for winches GS-SPS



### APPLICATION

Device is designed to log the lowering and hoisting operations of the down-hole instruments.

It is used for geophysic researches to operate jointly with winch.

There is available to display and store the velocity and position of down-hole instruments during hoisting operations.

Real time clock allows to log the data with the hard link to the time. Position data can be synchronized with the pressure values registered by down-hole pressure gauge.

It is produced the 3 models - SPS2, SPS3, SPS5.

### FUNCTIONS

- Display for depth value, destination and velocity of movement
- Sound signal after defined depth level achievement
- Ability to modify the impulse weight (possible to compensate the depth measurement error caused by wireline diameter change)
- Display and modify for the current date and time
- Interval definition between records of depth values
- Transfer registered data to PC computer to process and make reports
- Magnet marks indication
- Automatic adjustment for depth value relative to magnet marks

### SENSORS

- **Depth counter DP-10/50**  
To measure depth. It is used jointly with equipment.
- **Depth counter DP-100**  
It is designed to measure depth. It is mounted on the bottom roller of winch PKS-5.
- **Depth sensor DG-2**  
It is mounted on the upper roller of winch.
- **Magnet mark sensor DMM-2M**  
It is used with SPS3 for registering of magnet marks.
- **Tension sensor DNT-1**  
It is used to measure the tension value on the wireline or cable. It is mounted on the lower roller of winch PKS-5.

### SET

- SPS2 consists of main unit, DP-10/50.
- SPS3 consists of main unit, DP-10/50, DMM-2M, DNT-1.
- SPS5 consists of main unit, DP-10/50 (DP-100, DP-100R), DMM-2M, DNT-1, DG-2.

### SPECIFICATION

Depth measurement range, m	± 0,01 ... 9999,99
Velocity measurement range, m/hour [ km/hour]	18 ... 9999 [ 10...99 ]
Sensor impulse weight range, cm/imp.	0,0001 ... 9,9999
Maximal error for the length 1 km, cm	5
Tension measurement range, kg	0 ... 10000
Operating temperature range, °C	-40 ... +85
Flash-memory capacity, Kb	528 (1056*)
Sample rate, sec	1 ... 99
Record time with interval 1 sec, hours	48 (96*)
Power supply voltage, V	=12 / 24*
Counter unit weight, kg	0,7
Depth sensor weight DP10/50, kg	0,9

\*Modifications on customer's request