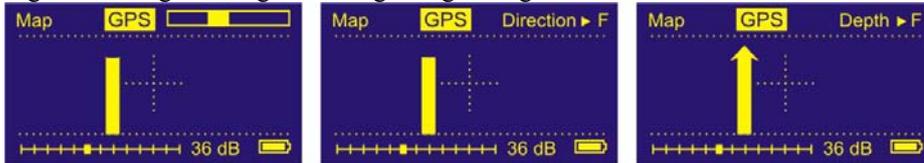


## 9.1 CABLE MAP Mode

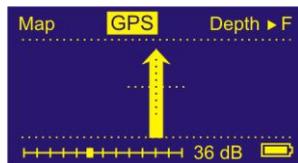
Cable map has easy-readable graphic information that is handy for quick orienting. The mode combines all the innovation methods of tracing: measuring of the signal level, using *minimum* method of indicating above the cable, defining of “own/right-wrong” cable regarding the signal direction.



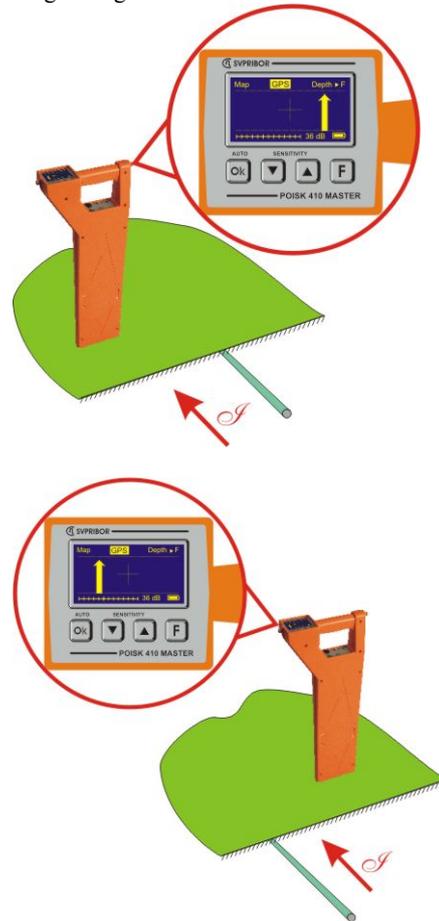
Pic.9.1. **CABLE MAP** Mode. Defining the signal direction

Do the preliminary tracing. The level of the signal will be displayed as a line or pointer. When you get the firm signal, the direction of the cable signal current will be defined in a few seconds (Pic 9.1,a), but the level indicator wouldn't look as a pointer. Settle the required direction pressing **[F]** (Pic. 9.1,b), then the indicator will be displayed as a pointer again.

Pic. 2, shows the position of the trace-locator above the trace as displayed. When the pointer is in the middle of the cross-point, you can measure the depth pressing **[F]**. (Pic. 9.3).



Pic 9.3. The position when measuring of the depth is available.



Pic. 9.2. **CABLE MAP**, a – the “right” cable is on the right side of the device: signal from the transmitter goes straight on through the cable; b – the “right” cable is on the left.

### Writing position data, depth of burial and data of the signal

If writing to file mode is enabled, position data and depth of burial will be stored on returning to “CABLE MAP mode”.



### Getting GPS data

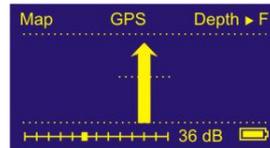
410 MASTER has a built-in GPS module, for getting actual position data. Switch on the GPS module (menu item “**GPS On/Off**”). Startup time is rather long (2-3 min), because GPS module is getting an initial position. Low

signal level of GPS satellite or failing a satellite increase the startup time. Low signal level of GPS satellite or absence of satellites increases the startup time.

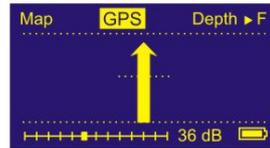
Getting the position data in “*CABLE MAP mode*”.

The GPS module indicator, on the top of the screen, shows the current state of the module:

**GPS** - GPS module is switched on, but it is not ready to get the position data.



**GPS** - GPS module is switched on and ready to go.



The GPS data are written to 2 files at one time.

\*.gpx – standard file type for writing of GPS track. GPX files can be opened in the most of popular map viewers (Google Earth, ...)

\*.csv – text file with stored position data, signal current, depth of burial, and signal level data. CSV file is opened in all text editors and in MS Excel.