

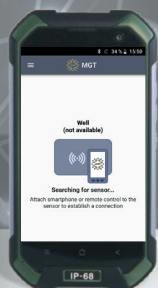


MAGMATECH

Innovative Technologies

www.mgtcontrol.ru

MGT PDU1 PORTABLE LEVEL SENSOR (ECHOMETER)



THE SENSOR IS INTENDED FOR CONTROL OF FLUID LEVEL IN THE WELL BY ECHOLOCATION.

THIS DEVICE IS UNIQUE, BECAUSE IT IS ABLE:

- ✓ to be operated by mobile devices with Android OS by Bluetooth wirelessly.
- ✓ to read identifiers of any well (number, cluster, oil field, pump setting depth) from NFC identifier.
- ✓ to transfer recorded echograms via GSM-channel. The sensor saves 6 echograms in its own nonvolatile memory and unlimited quantity in the device memory.
- ✓ The regulated time of waiting for a response is 5-40 seconds from the depth of 6000 meters which helps to avoid wasting time for waiting when working in shallow wells.

TASKS BEING TACKLED:

- ✓ **REDUCTION OF LEVEL CONTROL EFFORTS**
When controlling the level of fluid, the main mistakes are connected with undue identification of a well. When using an NFC identifier which includes key parameters of the well, an operator has no chance to commit a mistake, and, consequently, there is no need to repeatedly visit the well for performing additional measurements, to waste time for recording all necessary data into the device.
- ✓ **WARNING OF A CRITICAL VALUE OF FLUID LEVEL**
The smartphone program notifies an operator of a critical value of fluid, i.e. if it is lower than the pump setting level.
- ✓ **DIGITALIZATION**
After receiving the echogram it will be immediately sent to email addresses recorded in the smartphone memory which will help to make a decision as soon as possible.
- ✓ **MONEY SAVING ON REGISTRATION UNITS**
If you have already bought MGT Mobile Data Collection and Transfer Unit (BSPM) or a license for MGT program for your smartphone, the MGT PDU-1 sensor will be connected to an available BSPM unit, that's why you will not need to purchase an additional registration unit.



MAGMATECH
Innovative Technologies

EAC

SPECIFICATIONS

Technical Data	Description
Way of installation	On measurement wellhead equipment by a connection coupling
Temperature operating range	-40...+50 0C
Service life	≥ 5 years
Sensor uninterrupted operation	≥ 80 hours
Battery charging time	≤ 3 hours
Power supply	Built-in Li-Pol 3.7 V battery
Range of levels being controlled	20 /6000 m
Level resolution	≤ 1 m
Range of pressures being controlled	0/100 kgf/cm2
Pressure resolution	≤ 0,1 kgf/cm2
Sensor connection channel	Bluetooth 4.x (Bluetooth Low Energy)
Connection channel effective range, minimum	≥ 30 m
Sensor activation way	NFC
Quantity of echograms in the memory	6
Data collection and transfer units being connected	Portable data collection and transfer unit (BSPM) based on Android OS, Ip68 protection class
Sensor firmware updating	Via Bluetooth channel by the Data Collection and Transfer Unit (BSPM)
BSPM program updating	via the Internet (for free)
Level of protection from external disturbances	IP 67
Explosion protection label	1 Ex ib IIB T3 Gb X



Office 210, Raskolnikov St 83, the city of Naberezhnye Chelny, Republic of Tatarstan, 423800, Russia



+7 (8552) 200-133
+7 (967) 379-01-33



Technical Support Service
+7 (965) 594-16-19