

PZM20-B Piezometer / Digital Water Level Recorder

09-22



PREFACE

Acorn's PZM20-B is a concept Piezometer. It is permanently battery powered Water Table below ground level or "**WATER TABLE**" & Depth of water Acorn has been manufacturing water recce instruments like Water flow and level for more than a decade. We have versatile and stable designs. Further, Acorn by its own R&D strength, optimizes optional features such as required by large users.

The PZM20-B sends **Water Table information to customer's cloud** twice in 24 hours. Also, it has a built-in data logger for storing one month's Depth (optional up to 1 year) data at two times at 12 hour interval per day.

PZM20-B is **battery powered with up to five years** battery life.

Unique feature of PZM-20-B is that it can be connected to an Android Mobile to download configured through a Mobile App developed for PZM20-B. In doing so it will not reduce the also helps saving battery power during installation, commissioning and servicing the product.

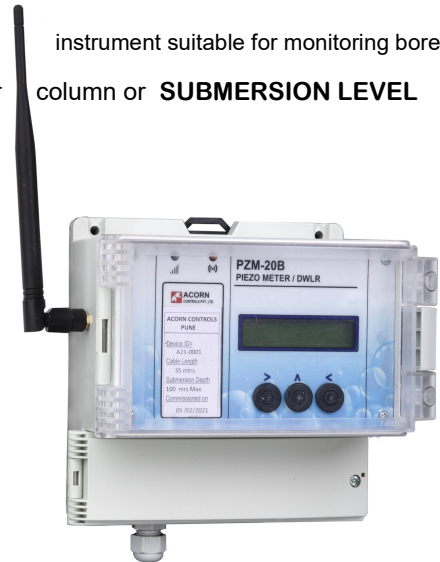
PZM20-B comes in a all-weather, field mountable Plastic, industrial grade housing. It is a for years of uninterrupted service

The Depth sensor can be supplied up to 100mtrs depths or more. It also has a SS304 Sensor body and the cable is suitable for prolonged submersion and is abrasion resistance for field use.

Salient features :

- Weatherproof Plastic housing
- Depth of water below ground indication(B)
- Depth of Water column readout if needed(C)
- Battery powered for up to 5 years
- GPRS connectivity option with Cloud service
- Built in Data logger for one year's data
- Configurable by a Mobile App
- Data download to Mobile option
- Special - Vented signal cable- PU insulated abrasion resistant
- backlit display on demand & Three key Keyboard interface for manual configuration.

instrument suitable for monitoring borewell's column or **SUBMERSION LEVEL**



logged data and also can be life of internal battery.This

rugged product designed



user's mobile

Typical Borewell Sensor Installtion



contd.....

SPECIFICATIONS :

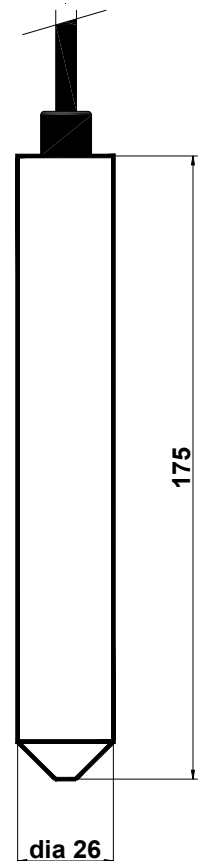
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|----|-------------------------------|--|
| 1 | Operating Power | Lithium thionyl chloride battery suitable for up to five years working |
| 2 | Bore/dug well depth range | Typically 60 mtrs, 100 mtrs or more |
| 3 | Meter Indications/ logging | On LCD display for (Backlighting only by Mobile or Power pack connectivity) Depth of WATER TABLE & Depth of Sensor Submersion |
| 4 | Accuracy | +/- 0.5% of F.S.(std) +/- 0.25% optional |
| 5 | Ambient Pressure compensation | By Vented Cable |
| 6 | Depth Sensor MOC | SS304 Body, (SS316 Optional),PU jacketed Submersible cable |
| 7 | Display Unit - | Injection moulded plastic , IP65 Construction & Protection |
| 8 | Data Logger & RTC | Built in with 365 days X 2 readings per day, Time & Date stamped storage |
| 9 | Data Transmission / Retrieval | Data Transmission to Cloud by GPRS and Data download by Android Mobile app |
| 10 | Configuration option | By Three key membrane KB or By Mobile App |
| 11 | Operating conditions | Operating : 0 to 55 °C , Storage : -10 °C to 60 °CC , Max RH =98% non condensing |
| 12 | Dimensions & Weight | Dimensions As given below : 1.5kg for Display unit (Sensor and Cable as per size) |

MOBILE CONNECTIVITY



DEPTH SENSOR

FIELD ENCLOSURE



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