



Intelligent Wireless SCADA Precision Level Reader System v3.0



Features and Benefits

- Portable well depth measurement and logging tool for field personnel
- Remote Monitoring System (RMS) with pump plus software suite to run on a Windows 10 tablet (eg Panasonic FZ-M1, Getac T800 etc)
- Ideal for regular gas and purge well sites management
- Integrated GPS to auto position unit and identify well under test.
- Rugged outdoor solution fully protected against dust and water ingress.
- Full logging and monitoring with timestamp and data file download
- Feet or Meters
- Top Detect feature to assist with installation and new wells
- Low power consumption with long life rechargeable NiMH battery

DESCRIPTION

The Plexus Controls Precision Level Reader System (PLR) permits field staff to use the portable system to take water depth measurements from sites with depth measurement tubes already installed, avoiding well cap removal and exposure to potentially harmful gasses.

Using an internal air pump, the PLR pressurizes a hose that is installed permanently inside the well and calculates the water depth from the pressure (or differential pressure) value. The system offers a host of user features to speed up the read and data logging process such as local save and recall of well site information (casing height ASL, tube depth), and provides a water level calculation of height above sea level.

In addition the systems optional GPS interface provides an automated site location feature.

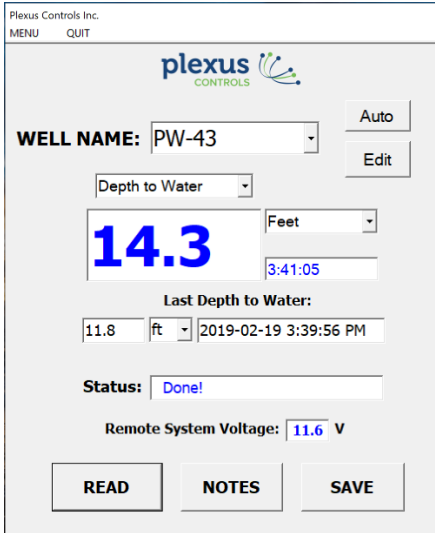
The data log will save well name, location and time and date to a csv file for downloading. Alarm features such as hose connection integrity and blocked hose helps to identify any fault condition with the measurement.

The PLR uses the Trimble TDS Nomad© hardware platform any Windows Mobile 5 or 6 hardware with Bluetooth installed.

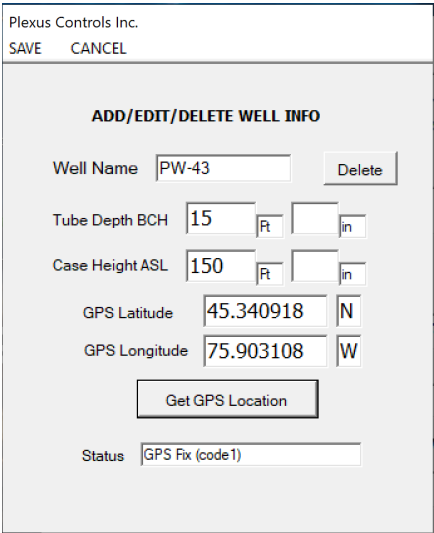


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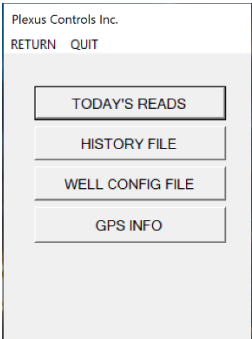
PLR Software Screen Examples:



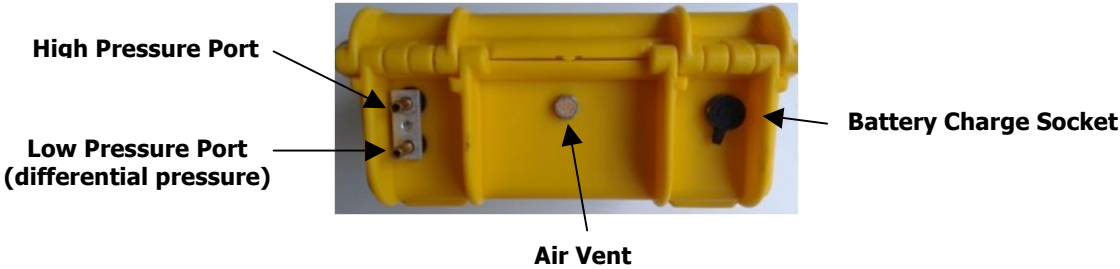
Main Screen



Well Data Entry



Menu Select





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PLR SPECIFICATIONS

Bluetooth Specifications

Profiles	2.1 + EDR, 2.0, 1.2, 1.1
Frequency	2.412 – 2.484 GHz ISM
Modulation	FHSS/GFSK modulation, 79 channels at 1MHz intervals
Power Output	+4dBm

System Specifications (Remote Monitoring System)

Battery	12V 1.6Ah Rechargeable NiMH
Charger	12V NiMH Smart Wall Plug Charger
Hose Connection	High and Low Pressure – 3/16" Brass Barb
Max. Water Depth	400" standard (200" also available)
Accuracy	Approx. ±0.1dec ft

Security

Data Encryption	AES 128bit available (optional)
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Physical, Electrical & Environmental

Mounting	Portable
Operating Temperature	-20C to +50C
Relative Humidity	0-100% Condensing
Enclosure	9" (w) x 4" (h) x 8" (d) (228mm x 100mm x 203mm)
Weight	42oz (1.2kg) (approx)

ORDERING INFO

IWS-P-1000-BT	Intelligent Portable Precision Level Reader (PLR) System. Bluetooth communication, includes 110V battery charger, GPS positioning module, 2 x 4ft colored silicone hoses & retaining clips. 1 year standard warranty. (Requires IWS-WDMS-BTS Software and Windows 10 handset with integrated Bluetooth)
IWS-WDMS-BTS	Handset software license for handset to operate PLR system. Runs under Windows 10 operating system. (Requires IWS-1000-BT PLR system)



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