



PQN-V

Submersible PQ Node Assembly



Application:

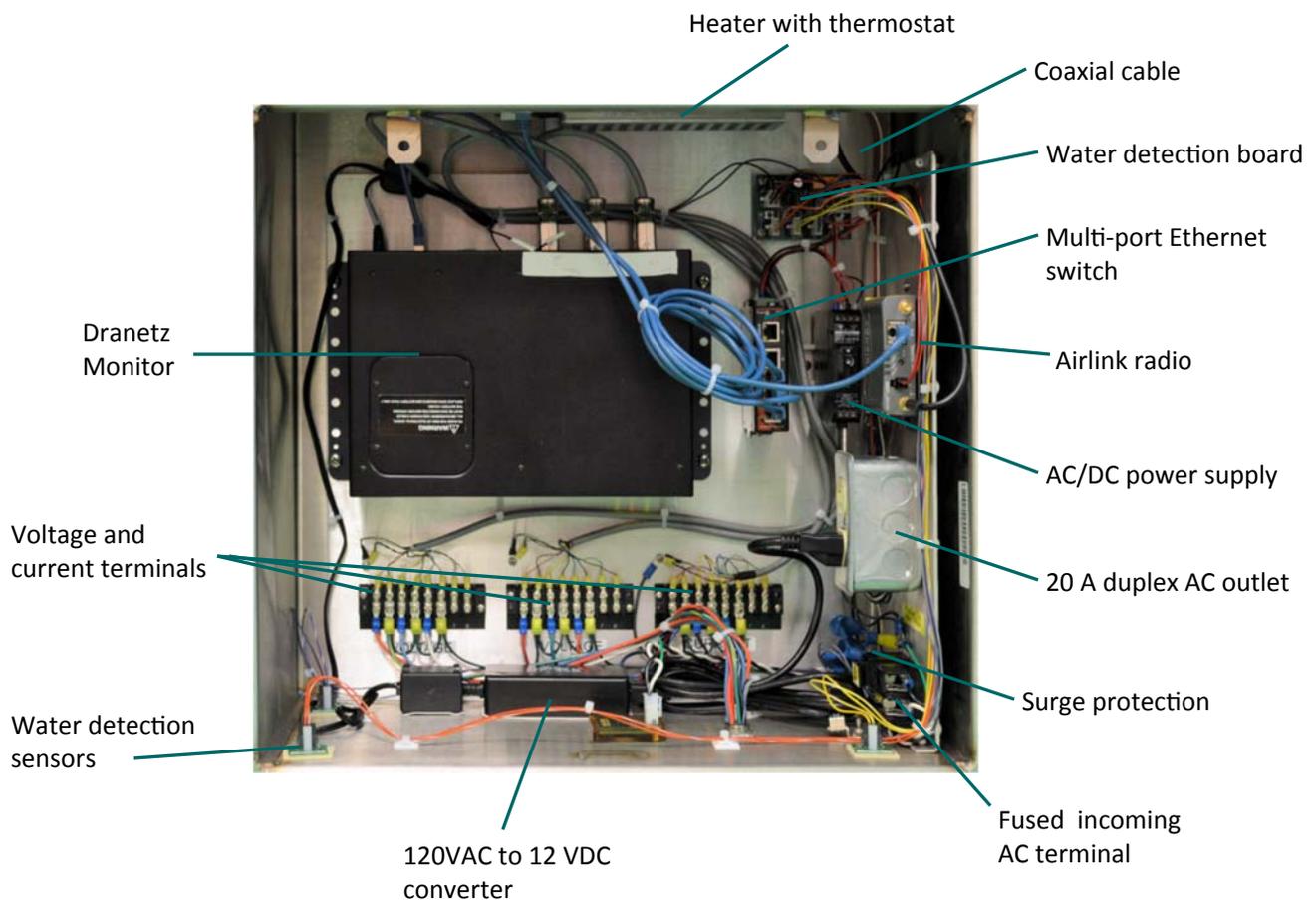
For customers looking to access power quality information from circuits located in underground vaults, Cleaveland/Price offers the PQN-V, submersible PQ node assembly. The PQ Node is designed specifically for underground installations and is customized to meet each customer's needs. Customization includes:

- Customer's choice of PQ monitor
- Customer's choice of communication mode
- Customized water-tight cables from sensors
- Customized internal wiring for chosen components

The PQ Node is designed for easy handling and installation and will easily fit through a 36" man hole access.



Typical PQN-V Layout



Power Quality Monitoring for Underground Installations



BUILDING RELIABILITY INTO A VAULT MOUNTED POWER QUALITY MONITORING STATION

The environment in switch vaults is nasty. Vaults regularly fill with water that contain all sorts of contaminants. The Cleaveland/Price PQN-V enclosure is designed specifically to endure this kind of environment.

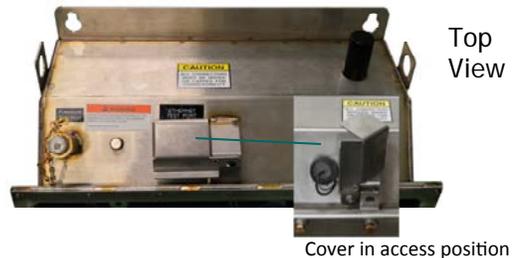
The submersible vault mounted PQ Node enclosure is rated IP68 and features:

- Stainless steel construction
- Removable gasketed access panel
- Gore vent to allow equalization of ambient and internal enclosure pressure
- Pressure fill valve
- Lifting eyes
- Keyhole mounting points

Each enclosure undergoes a production test that verifies that the enclosure is water-tight.

COMMUNICATIONS

The PQ Node enclosure is supplied with a water-tight, tamper-proof RJ-45 Ethernet port with padlockable cover for local interface with the power quality monitor. A Maxrad type antenna with sealed connection is provided for wireless network communication. Other communication options are available.



Top View

WATER-TIGHT WIRING ENTRANCES

All wiring entrances into the PQ Node terminate to encapsulated connectors. Wiring entrance points are supplied with sealing caps that protect contacts from contamination should the external wires not be connected. Even without the caps in place, the potted connections prevent water from entering. External wires supplied by Cleaveland/Price are designed and manufactured to prevent the ingress of water.

TRUST BUT VERIFY

The PQ Node enclosure is designed to insure its IP68 rating. To verify that the unit is water-tight, the enclosure has moisture detection sensors at each bottom corner that will activate an alarm should there be any accumulation of water within the enclosure.



Bottom View

PQN-V Dimensions

