RTU BASED
BASIN, CANAL AND RIVER LEVEL MONITORING SYSTEM

TBOX
AN OVARRO TECHNOLOGY

THE CHALLENGE

For water level monitoring systems, all installations require timely notification of rapidly changing conditions, while minimising the cost of communications. Robust construction is also necessary to operate outdoors as some installations may find themselves temporarily under water.

We needed to provide a solution that moved away from the continual polling that is characteristic of SCADA systems, and offer a cost-effective alternative that improved efficiency and increased situational awareness.

THE SOLUTION

Our range of TBox RTUs use push technology to communicate only when necessary. Push technology best utilises inexpensive public networks and allows remote sites to operate on the least expensive plans.

The TBox alarm management system has been employed to inform operators of alarms or changing live conditions. The system can then escalate reporting if acknowledgement does not come through in a user-configured time.

The TBox Nano has an IP68-rated enclosure which provides complete protection from dust, water spray, and even submersion up to 4 metres.

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WATER

MONITORING & CONTROL

RTU'S

OVARRO
CONNECTING TECHNOLOGIES

REQUIREMENTS

TBox devices generate historical reports which include a variety of operational information on external conditions and factors for regulatory agency auditing, record-keeping and system maintenance. Equipment run times and conditions such as ambient temperature are combined in maintenance reports and allow TBox to notify staff of an approaching milestone. This successfully improves efficiency and situational awareness of the network.

"Users take advantage of the timely notification from TBox devices to allow operators to take decisive, business critical decisions."

OPERATIONAL BENEFITS

Some systems have used TBox devices to automate processes such as starting pumps or raising/lowering gates in response to changing water levels. In most cases, users take advantage of the timely notification from TBox devices to allow operators to take decisive, business critical decisions.

The TBox escalates alarm reports if left unacknowledged, minimises power draw in order to keep costs low, operates over a wide temperature range and is available in IP68-tested housing, uses push technology to notify multiple recipients of alarms and rapidly changing live conditions and more.

KEY DELIVERABLES

- Improved productivity and response time by removing unnecessary alarms
- Easy access to data for mobile workforce
- Increased situational awareness
- Improved operational efficiency
- Reduced running and maintenance costs