

Power Line Tension Testing Interface Mini™

Industry: Infrastructure

Summary

Customer Challenge

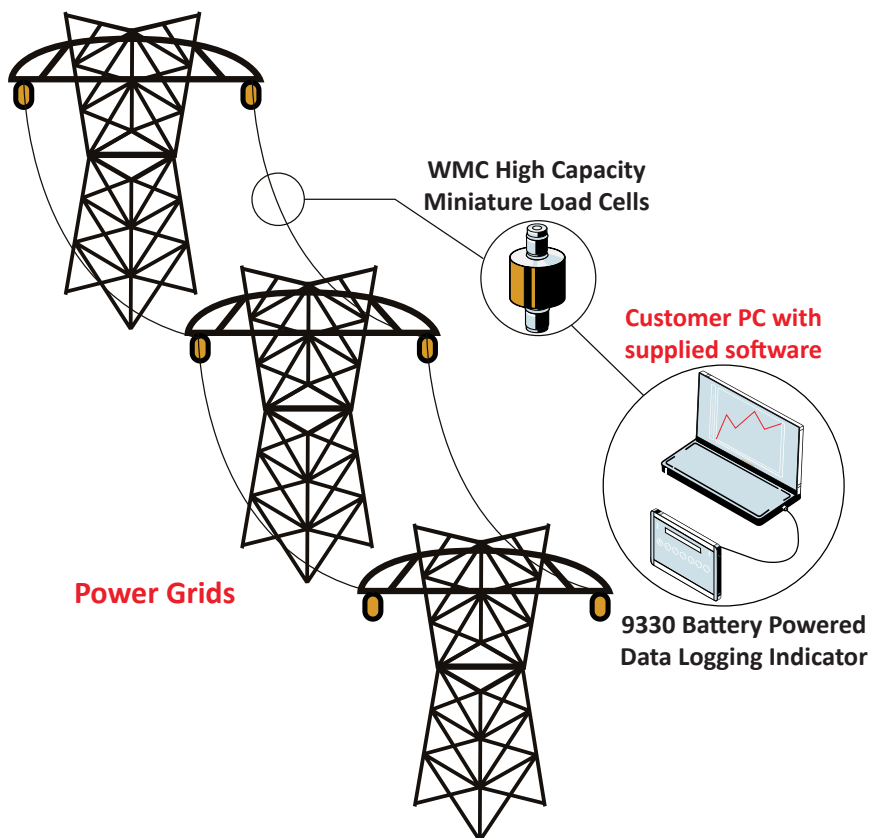
Power lines are a critical component of electrical infrastructure, responsible for transmitting electricity over vast distances. Ensuring the safety and reliability of them is of extreme importance. Power line maintenance is regularly tested and monitored, and an efficient monitoring system is needed.

Interface Solution

Interface recommends utilizing WMC Sealed High Capacity Stainless Steel Miniature Load Cells in conjunction with rod end bearings to record cable tension forces during a maintenance procedure. The tension forces can be measured by the 9330 High Speed Data Logger from Interface, and the results can be displayed on the customer's PC or laptop.

Results

Interface's force measurement system successfully monitored the power lines and their cables during its maintenance operation.



Materials

- WMC Sealed High Capacity Stainless Steel Miniature Load Cells
- Rod End Bearings
- 9330 Battery Powered High Speed Data Logging Indicator with BlueDAQ software
- Customer PC

How It Works

1. Multiple WMC Sealed High Capacity Stainless Steel Miniature Load Cells are attached with rod end bearings to capture and monitor cable tension forces.
2. The forces from the WMC can be measured using the 9330 High Speed Data Logger, which then can be displayed through the customer's PC computer or laptop with supplied BlueDAQ software.