

NI-DAQ with “Versatile Trigger Unit PI608”

- **Challenge:** Monitoring blade vibration and engine speed on ABB turbo chargers.
 - Replacing outdated equipment and providing new signal conditioning features.
 - Creating reliable digital trigger signals out of any analog proximity sensor signal.
 - Optimizing processing power.
 - Providing a platform independent trigger conditioning solution.
 - Handling sensor signals disturbed by noise and interferences in a harsh industrial environment.
 - Ensuring that the efficient use of any NI-DAQ is made easy.
- **Result:** This modular state of the art monitoring system covers all needs for flexible lab and field measurements.
- **NI Hardware and Software used:** cDAQ, cRIO and PXI with LabVIEW

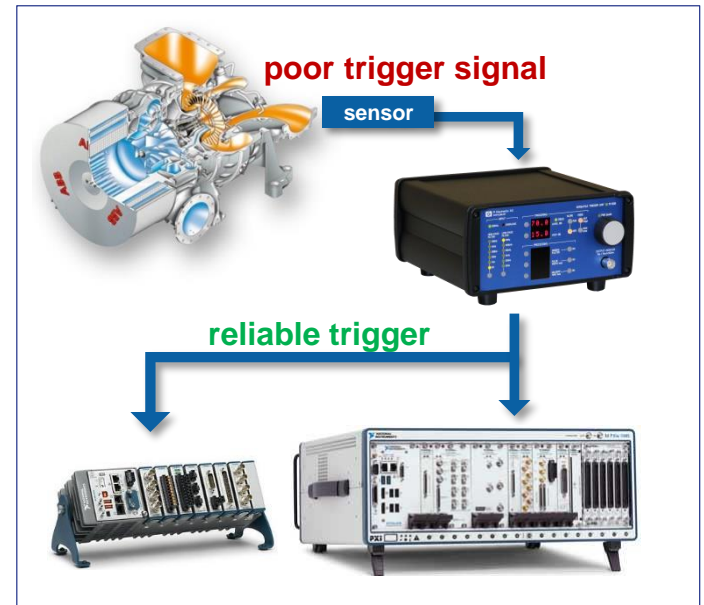
- **Contacts:**

Matthias Glatt, ABB Turbo Systems AG

matthias.glatt@ch.abb.com www.abb.com/turbocharging

Rolf Bachmann, PI Electronics AG, NI Alliance Partner

rolf.bachmann@pie.ch www.pie.ch/PI608



“Any common proximity sensor can be used as a reliable trigger source for any National Instruments data acquisition platform.”

