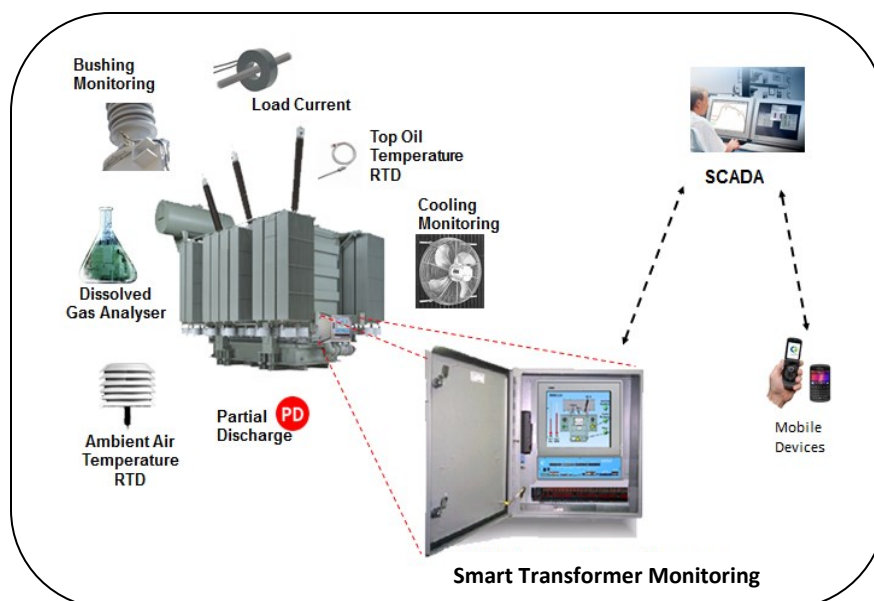


# The QEI Smart Transformer Monitoring System



QEI's Smart Transformer Monitoring provides for a real-time, continuous picture of your substation power transformer's condition. Smart Transformer monitoring uses your existing sensors to monitor various parameters of your transformer to include:

- Oil temperature
- Cooling fan on/off status
- Bushing status
- Dissolve gas data
- Ambient temperature
- Load current
- Partial discharges
- Load tap changer values

Smart Transformer Monitoring gathers this data and reports the back through your SCADA system, to provide you continuous oversight and the alarming of unusual conditions so that you can act quickly to protect your investment.

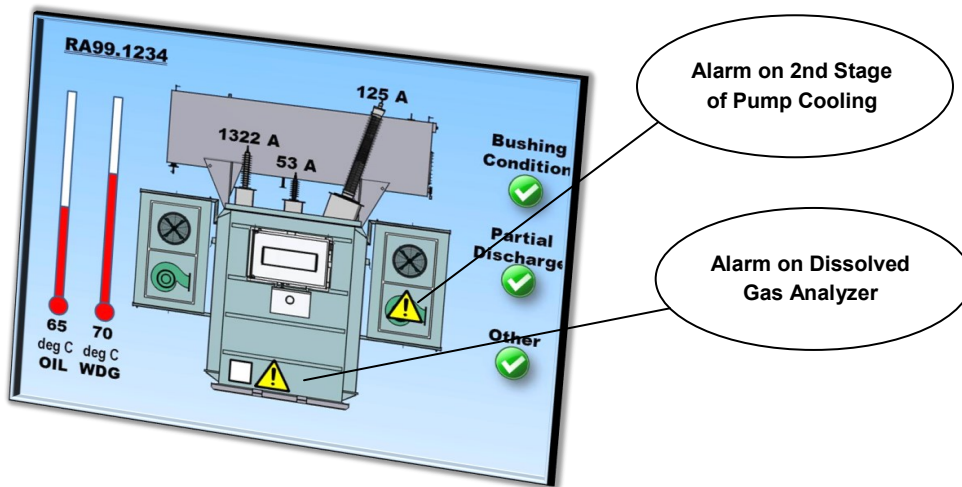
The Smart Transformer Monitoring system can take account of a wide range of emergency conditions for immediate alarming to your SCADA system, such as winding hotspot temperature and early warning of overload conditions.

Additionally, a local HMI can be provided for information display right at the transformer unit itself/

While your SCADA system presents dispatchers with this data directly, the further step of delivering alarms directly to on-call personnel mobile devices will help guarantee

**Smart Transformer Monitoring**  
*Keeping you connected to the state of your investment*

### Local HMI Provided for Intuitive Indication of Critical Transformer Parameters



#### Smart Transformer Monitoring will....

- provides local displays for easy understanding and interpretation of what is happening to the transformer
- supports third-party sensing devices such as temperature sensors, gas monitors, and other common transducers
- can be retrofitted to existing

transformers to address the needs of aging equipment

- provides for 24/7 review of critical values to forestall early failures
- uses and enhances the capabilities of your SCADA system.
- can deliver alarms and notifications directly to personnel mobile devices at any time.

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