



**GUJARAT POWER
RESEARCH & DEVELOPMENT CELL**
GUJARAT URJA VIKAS NIGAM LTD

WATCHDOG TRANSFORMER

ONE SOLUTION FOR MANY ISSUES



The WatchDog Transformer (WDT) is a combination of the present Distribution Transformer (DT) and WatchDog Device (WDD)

Benefits to the Power Distribution Companies

- Measuring and monitoring of real-time electrical & health parameters of the Transformer
- Improved the transformer's protection, reduces its failure & increases the service life
- Connect and disconnect feature increases the revenue realization
- Improves the operation efficiency using bi-directional communication, control & automation
- Eliminating direct access to vulnerable low voltage bushings for illegal usage of electricity
- Leakage protection feature improves the safety of lives
- Identifies revenue leakages by auto Energy Audit
- Eliminates human intervention at all levels

- Cost-effective, reliable & quality Power supply for the valued Customer
- By using WDT, DISCOMs may avoid feeder segregation in case of mixed load feeders of Agricultural Pump Sets & Domestic connections

Features of WDT

- 3 Phase and 1 Phase Power Supply Scheduling in Agriculture Sector
- Overload, Short Circuit & Leakage Protection
- Over, Under & Unbalance System Voltages monitoring
- Load Connect & Disconnect: locally & remotely
- Remote Monitoring of Electrical & Health Parameters

The WatchDog Transformer is a novel concept, it is having the capability to revolutionize the Power Sector

**PATENT
AWAITED**