

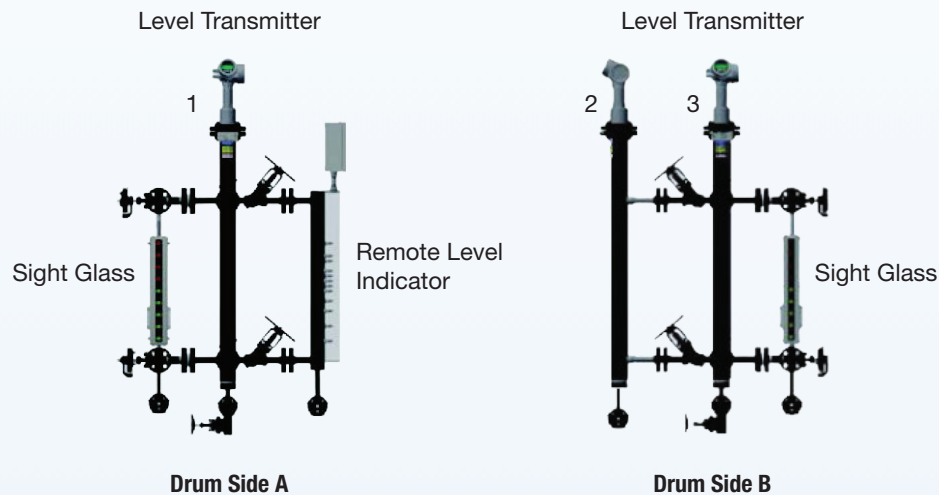
— HRSG & COMBINED-CYCLE DRUM LEVEL SYSTEM

LevelMax™ Optima

Reliable drum level measurement for HRSGs and combined-cycle power plants.

■ PROTECT GENERATION

■ IMPROVE RELIABILITY



TWO MODULAR DRUM-END ASSEMBLIES

- **LevelMax™** – ASME sight glass & remote indication
- **Optima** – redundant guided wave radar transmitters
- **Ready to install** – Highly customizable to your plant's needs and installation footprints.



FREEZE PROTECTION FOR HRSG DRUM LEVEL

Button Down NERC Winterization Compliance.

Maintaining accurate boiler drum level is critical to safe, reliable HRSG operation. Instrument failures, freezing impulse lines, and inaccurate level indication can contribute to unplanned outages, unnecessary maintenance, and increased compliance risk.

The Clark-Reliance **LevelMax™ Optima** combines our best in class ASME BPV Section I compliant ported glass gages with two different technologies of drum water level indication. Combining a direct reading gage glass with the trusted Reliance conductivity probe system, Eye-Hye® SmartLevel, and guided wave radars; we provide continuous, highly accurate drum level measurements while eliminating many of the common problems associated with differential-pressure technologies.

Guided Wave Radar and Conductivity Probe Columns with insulation and heat tracing are the industries best option to prevent unexpected winter freeze shutdowns. The freezing rate of a chamber compared to a sensing tube makes all the difference. Supplemental heating and permanent or temporary shed approaches are not as reliable as the LevelMax™ Optima for meeting **NERC (North American Electric Reliability Corporation) winterization requirements.**

Supporting Plant Reliability

Reliable drum level instrumentation is a foundation of dependable generation. The LevelMax™ Optima system was engineered to keep your unit online and your level measurements trustworthy – delivering:

- ◆ Increased unit availability
- ◆ Reduced maintenance costs
- ◆ Improved operational confidence
- ◆ Lower lifecycle ownership costs
- ◆ Greater confidence in critical level measurements

Helping Plants Meet Reliability Expectations

Many plants have suffered the loss of power generation using traditional design approaches. Dependable HRSG drum level measurement supports the operational reliability initiatives emphasized throughout the electric utility industry.

LevelMax™ Optima helps utilities reduce instrumentation-related risks that can contribute to forced outages and unplanned generation losses.

Proven Boiler Instrumentation from Clark-Reliance

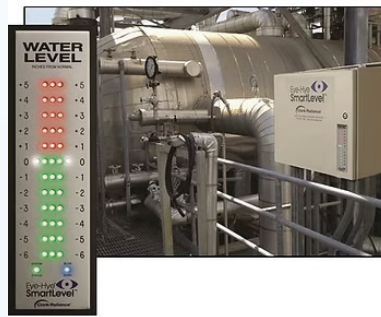
For decades, Clark-Reliance has supplied level instrumentation trusted by power producers worldwide. LevelMax™ Optima combines modern guided wave radar technology with ASME boiler-application expertise to deliver the performance that protects the power grid.



Simpliport® Gage

Direct-reading, ASME-compliant
bicolor sight glass

THE MULTI-TECHNOLOGY ADVANTAGE



SmartLevel™ Eye-Hye®

Remote electronic drum level
indicator



Guided Wave Radar

Redundant, chambered & heat-
traced level transmitters



Clark-Reliance LLC · 16633 Foltz Parkway, Strongsville, Ohio 44149
Tel: 440-572-1500 · www.clarkreliance.com