

HONEYWELL END-TO-END EMISSIONS MANAGEMENT

With Combustion Controls

Combustion Controls are part of the larger Honeywell End-To-End Emissions Management Suite, a holistic approach for moving towards carbon neutrality and bringing together a multitude of technologies to measure, monitor, report and reduce your footprint of greenhouse gas emissions.



ENERGY EFFICIENCY AND EMISSION CONTROL

Implementing advanced combustion optimization techniques helps achieve efficient fuel combustion and minimize emissions. By fine tuning the combustion process, you can reduce emissions of pollutants such as nitrogen oxides (NOx), carbon monoxide (CO).

INTEGRATION WITH INDUSTRIAL AUTOMATION PLATFORMS

Industrial combustion control and burner management systems are becoming increasingly integrated with on-site automation systems like DCS or SCADA to improve performance, efficiency, system monitoring and remote control as well as optimizing burner operation.



DATA ANALYTICS AND PREDICTIVE MAINTENANCE

By collecting and analyzing data from various sensors and devices, plant operators and managers can identify patterns, detect anomalies and predict maintenance needs. Integrating analytic methods to support industrial combustion processes helps to optimize maintenance schedules, minimize downtime and improve overall system reliability.

SHIFT TOWARDS LOW-NOX COMBUSTION

Rising environmental concerns and emissions standards are driving demand for combustion technologies that can achieve low NOx emissions. By replacing older technologies with low-NOx alternatives, you can significantly lower emissions.



COMBUSTION PROCESS RELIABILITY

There are challenges for combustion systems related to adjusting fuel-to-air ratios, managing combustion dynamics and maintaining consistent heat output. Overcoming them to achieving precise control and responsiveness requires advanced control algorithms, sensor integration and real-time monitoring capabilities.

A business can't manage what they can't measure, and a comprehensive emissions management process, with speed and accuracy, is critical. Organizations will benefit from a partner that can provide a onestop shop for burner, combustion, and emissions management. We can assist you at every step:

MEASURE

Automated Near Real-Time Emissions Coverage

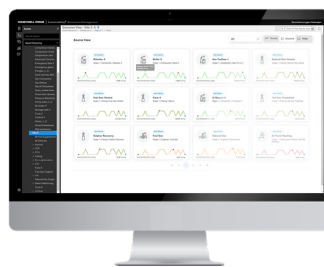
REBELLION GAS CLOUD IMAGING

THIRD-PARTY DATA
(i.e. Drone/Aircraft, LDAR)

HONEYWELL VERSATILIS™ SIGNAL SCOUT™

MONITOR AND REPORT

Source, Site, Region and Enterprise Level Trending and Visualization



HONEYWELL FORGE SUSTAINABILITY* FOR INDUSTRIALS | EMISSIONS MANAGEMENT

REDUCE

Enable Automated and Manual Emissions Actions

ENERGY EFFICIENCY & OPTIMIZATION

- Combustion Controls
- Digital Twin

- HYDROGEN (H₂) TRANSITION
- CARBON CAPTURE (CCUS)
- ENERGY STORAGE
- RENEWABLE FUELS

EMISSIONS 360 OUTCOME AND KPI BASED SERVICE PROGRAM

REDUCTION PROGRAMS, INCLUDING E360, CLOSES THE LOOP