

# CUSTOM ENGINEERING LEVEL I

# CUSTOM MODIFICATIONS

Hot Ash Bins Are No Place for  
Standard Level Switches, So This  
Facility Switched to OMEGA!

## A CASE IN POINT

An engineer at a large coal-burning facility needs high-performance instrumentation to detect high ash levels in hot-ash bins.

## PROBLEM

The high-sulfur coal ash can reach temperatures up to 427°C (800°F) and is highly abrasive. The typical life expectancy of probes in this environment is limited, and an extremely rugged, high-temperature level switch is required. No problem!

## OMEGA® SOLUTION

First, we modify the design of an OMEGA® LV-3000 radio frequency (RF) electronic level switch. Then, we custom engineer a unique probe made of ceramic and stainless steel, capable of withstanding the rigors of this application. The electronics can be remotely located with 6 m (20') of coaxial cable. This probe withstands temperatures up to 538°C (1000°F), and, since it has no moving parts, reliability is very high. Best of all, the customer reports tremendous success with all three devices!



PHONE, FAX OR E-MAIL  
WITH YOUR SPECIAL REQUESTS

**1-800-82-66342**  
**1-800-TC-OMEGA®**

Custom Engineering Fax:

**1-203-359-7890**

e-mail Custom Engineering  
custom@omega.com



Standard OMEGA® LV3000  
Level Switch is Modified for High  
Temperature Ash-Level Application

## Other Examples of Custom Modifications...



Radiant Energy Shield Protects Element in Air Flow from  
Airborne Particles and Thermal Radiation



Dual Calibration Subminiature Sensors for Existing  
Equipment Provide Quick Response