

Industrial SPP / Partner Teaming Profile

Service/Product Provider

Centro Inc.

321 Hill Avenue Nashville, TN 37210

Business: Flow Control Distributor & Representative

Brad Davis

Territory Manager Phone: 615-255-2220

Email: bdavis@centromemphis.com

Industrial Partner

Nissan

983 Nissan Drive Smyrna, TN 37167

Business: Automobile Manufacturing

Chris Goddard

Environmental Engineer Phone: 615-459-1633

Email: chris.goddard@nissan-usa.com

Nissan and Centro partner to reduce energy cost 20% through improved metering

Project Scope

Nissan wanted to precisely measure consumption by department in their Smyrna facility. For low pressure natural gas applications, Nissan sought a simple, reliable metering device with no moving parts. Centro determined that the Aaliant Target Flow meter and the Fox Thermal Mass Flow meter would meet Nissan's needs for natural gas applications as well as some water applications. Following a demonstration of the meters that was conducted by Centro, over 100 meters were installed.

Project Summary

After installation by Centro of the above mentioned equipment, Nissan's new metering and measurement capability allowed Nissan to identify key areas in the plant with highest annual energy consumption, distribute proper costs to different plant functions to increase awareness and sensitivity, measure performance against budgets, and identify areas for improvement.

Energy Savings

Installation of these meters contributed to greater than 20% energy savings over the past two vears

Investment

Approximately \$300,000

• Financial Return

Payback in 2.5 years

Other Benefits

Productivity, maintenance, and reliability

Monitoring & Verifying Energy Savings

The installed metering itself verified the savings.

Distinguishing Value

While the Aaliant Target Flow meters and Fox Thermal Mass Flow meters used within the air house area of the paint shop was the focus of this project, their success resulted in meters being installed in other departments such as the power house and the paint mix room.

