

CUSTOM ENGINEERING LEVEL III

COMPLETE SYSTEMS ENGINEERING

From Sensors to Software
...Only OMEGA Can Bring It ALL Together!

A CASE IN POINT

An industrial plant wants to completely automate its process monitoring and control systems into one central location. The plant has three locations within the facility that require process monitoring and control. The three locations are several hundred feet apart.

PROBLEM

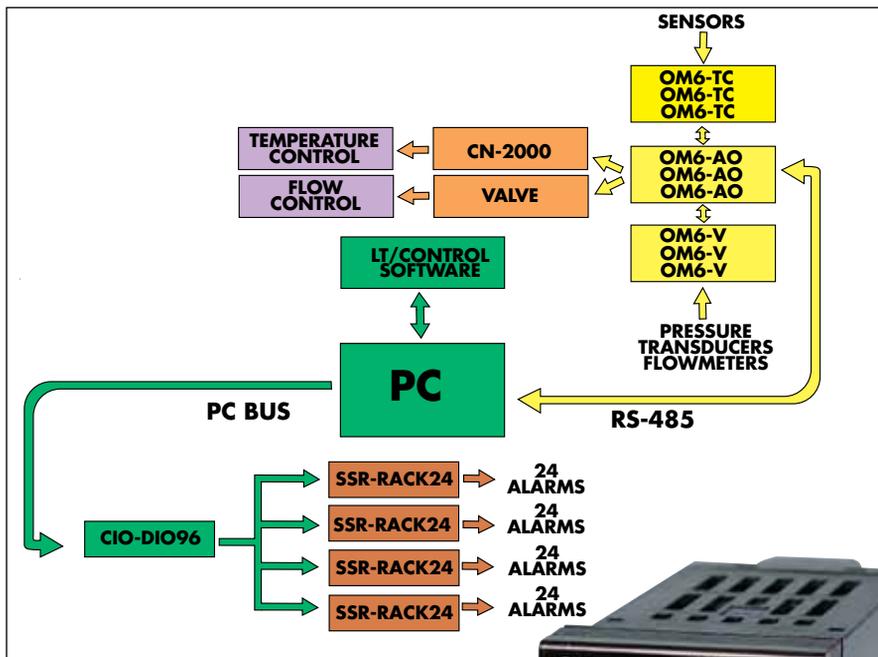
At this facility, measurements are required of the following parameters: five temperatures in the -18 to 149°C (0 to 300°F) range, five temperatures in the 538 to 1649°C (1000 to 3000°F) range, five pressure measurements of coolant fluid, as well as the flow rates of three pipelines.

Requirements for each of the three monitoring and control systems include the following:

- ✓ Display of all parameters in an easy-to-read format on the host computer
- ✓ External alarm capability on all measured parameters
- ✓ Temperature control, based on the three temperature signals
- ✓ Control of the flow rates in each pipeline
- ✓ Additional requirements: The processes' continuous operation is paramount, requiring that the data acquisition/control system be modular or easily replaceable in case of component failure. Also, because the temperature control is critical, it must be switchable from automated to manual control

OMEGA SOLUTION

Signal Conditioning for Each Input: Key issues in addressing the inputs are the industrial nature of the process, the need for modularity and the distributed locations of the process. The OMEGA® OM6 modular system accepts the process signals, providing digitized output. The units are individually sealed and are exceptionally well suited for an industrial environment.



The OMEGA® 1/6 DIN MICROMEGA® Autotune PID Temperature/Process Controller

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

CN77000



OS1551

CN77000 MICROMEGA® Series 1/6 DIN controller shown with the OS43 Industrial Infrared Sensor. Please see OMEGA for more information on the OS1550 Series, and CN77000.