

# CUSTOM ENGINEERING LEVEL I

# CUSTOM MODIFICATIONS

Utility Naturally Turns to OMEGA®  
for Custom Flow Applications!

## A CASE IN POINT

A utility located in the Rocky Mountains needs to measure the flow rate of natural gas to its boilers accurately for precise combustion control.

## PROBLEM

Ball bearing turbine meters have been specified because of their low flow rate gas capability; however, only a water flow rate turbine meter appears to be available.

## OMEGA® SOLUTION

Modifications to OMEGA's Model FTB-100 water flowrate turbine meter are made, and special calibration for this natural gas application is provided. The angle of the turbine blades is altered for use with this low density gas. A modulated carrier pickup coil with associated signal conditioner is used in place of the standard high drag magnetic pickup. These changes allow the turbine blades to continue spinning accurately even at the low flow rates being measured. The water calibration is simply converted for the correct density of the gas to yield pulses/actual cubic feet of gas flow.

Total Price: \$1800 



A Standard OMEGA® FTB-100 Series Turbine Flowmeter With Integral Signal Conditioner Is Modified for This Natural Gas Application

PHONE, FAX OR E-MAIL  
WITH YOUR SPECIAL REQUESTS

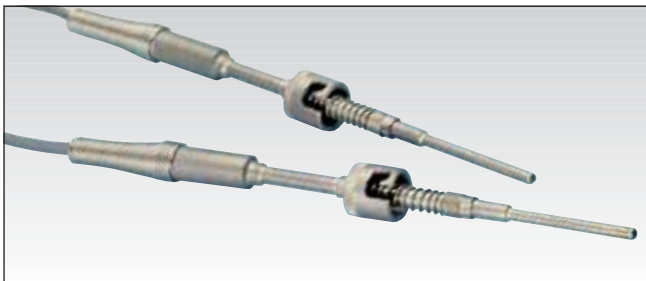
**1-800-82-66342®**  
**1-800-TC-OMEGA**

Custom Engineering Fax:

**1-203-359-7890**

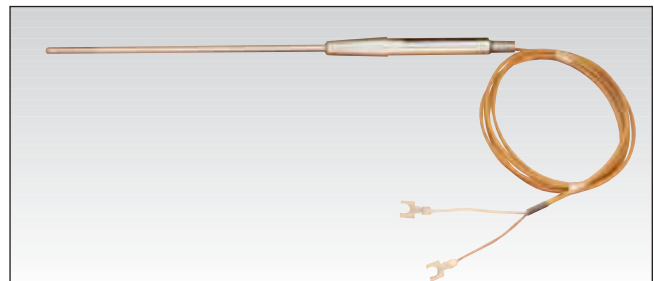
e-mail Custom Engineering  
custom@omega.com

## Other Examples of Custom Modifications...



Bayonet Hardware Facilitates Easy Installation and Removal of General Purpose Probes

\$93



Special Tapered Vacuum Sealed Transition Fitting

\$147