Manufacturer Paint Usage — EPA Reporting

AW GEAR METERS

CUSTOMER

Manufacturer of gas compression equipment
Mount Vernon, Ohio
Project Manager: Vice President of Manufacturing Operations

AW products supplied:

- ***SRZ- 40 Helical Gear Flow Meters***
- ***VTER/P Sensors***

APPLICATION

The application is to monitor paint and solvent usage in the Paint Spray Booths for reporting to the EPA. This customer needed to account for the paint and solvent they use in painting their compressors in their two Mount Vernon plants.

CHALLENGE

The main challenge was to overcome the paint fillers (mica) that were in the paint that was being used. Ariel tried three (3) other Flow Meter manufactures (Flow Tech, CPI and Temco) for this application, but again, due to the high filler content in the paint the other flow meters all failed. After reviewing the data and meeting with the customer, AW offered a trialed SRZ-40 Helical Flow Meter / Sensor (interfaced to their control) for approximately 3-4 weeks. The Project Manager was convinced after the first 2 weeks that since the AW meter was still running, which was further than anyone else had gotten, this would be a good meter for their application.

Note: When removing the demo meter we noticed an accumulation of paint around the internal meter inlet port which we attributed to the low flow rate (material would worm hole through). At this point we discussed and they agreed to set up a solvent flush for reducing this paint accumulation.

SOLUTION

The final solution was six (6) SRZ-40 flow meters for interface to their own individual PLC based control. These meter/PLC controls were set up at each of the required “satellite” booths for reporting. Then through Ethernet connection they would report material usage to a host computer on a daily basis.





AW-LAKE COMPANY