

GAS FLOW MEASUREMENT

The Application...

A Malaysian company manufacturing centrifugal and reciprocating compressors needed to rent a clamp on flowmeter to measure the discharge flow from a compressor.

The Requirements...

- Pipe diameter = 12 inches
- Gas MW = 43
- Discharge pressure = 140 psig
- Discharge temperature = 250°F.

The Technology...



Fig. 1: Clamp-on gas flow meter PT878GC, available for hire or purchase.

The Solution...

RS Hydro hired the manufacturing company a PT878GC by Panametrics. This is a non-intrusive, clamp-on flow meter. With some assistance from RS Hydro's trained technical staff over the telephone, the client found the PT878GC to be user-friendly enough to comfortably at site without any intensive training.

The TransPort PT878GC brings clamp-on ultrasonic gas flow metering capability to the portable level. Designed for natural gas pipeline, compressed air, inert gas or any compressed gas applications, the new PT878GC has the ability to measure gas flow rates, log data to internal memory and export flow data to a PC.

The TransPort PT878GC flowmeter can be used to measure the flow of any gas. It is especially useful for metering erosive, corrosive, toxic, high-purity or sterile gases, or in any application where penetrating the pipe wall is undesirable. Since no tapping or cutting of the pipe is required, permanent installation costs are significantly reduced. The meter has no wetted or moving parts, causes no pressure drop and has very wide rangeability. The new meter was tested extensively on metal pipes with diameters as small as 0.75 inches and as large as 24 inches. This meter is suitable for measuring the flow of air, hydrogen, natural gas and many other gases.

Case Study

rshydro

environmental measurement consultants
www.rshydro.co.uk +44(0)1905 774002