

FCI Solar Powered Thermal Mass Flow Meters Provide Flare Gas Measurement at Remote Fracking Well Sites

To comply with local and worldwide initiatives and regulations attempting to reverse global warming, oil/gas production field engineers are required to monitor and report on emitted (flared) gases occurring at these remote sites. Because FCI's constant power technology meters require very low power compared to the alternative constant deltaT (variable power) technology, they are uniquely capable of being powered with a small solar panel and provide field operators with an accurate, reliable solution to comply with these regulations.

A recent specific application involved the waste gases that resulted from the separation of hydrocarbon fluids at the well head. This waste gas is unsuitable for commercial use and is sent to a tank with a flare unit to be burned off (flared) as necessary. This gas is a mixed combination of flammable gases that include methane, ethane, propane, isobutene, butane, isopentane, pentane and hexane as well as trace amounts of nitrogen and carbon dioxide. Often there is moisture in this gas, too. The gas line from the tank to the flare was a small 1-inch diameter pipe and had a very limited straight-run. With its no-moving parts thermal dispersion mass flow sensing element, a solar power-able **FCI Model ST75V** Flow Meter with built-in Vortab® flow conditioner provides direct mass flow measurement of the gas at this site without the additional equipment required with other flow measurement technologies. Its non-clogging sensor design operates over a wide flow range with low-flow sensitivity. The integral Vortab flow conditioner provides a fully developed flow profile in just seven total pipe diameters. The ST75V Flow Meter is compatible with solar power systems that provide 24Vdc power without any special modifications. A typical solar power system supporting up to 28 meters in an oil/gas production field requires two 50-Watt solar panels to provide 24 hour power, even during cloudy, rainy or snowy winter days. The site engineers also recommended the additional installation of two large 12 Volt, 40 Amp hour backup batteries that are housed in a rugged 406 x 406 x 254 mm enclosure.



[Further details](#)



Limited Time Discount Offer On optek Range of Instrumentation

AMS is offering its customers a 10% offer on the optek range of instrumentation as per attached link

Valid for order placement from September 1 till September 31. Available to customers within our sales territory. Please use code: **optekSepto** to claim the discount.

<http://www.michell.com/us/category/process-analyzers.htm>



London Electronics economical graphical-screen digital panel meter

London Electronics have just released a new compact, low cost, and easy to use panel meter, which can be configured with a USB connection.

Being graphical, it allows you to create a digital and bar graph representation of your measurement. The front panel is a sealed IP65 making it ideal for installation in wet areas.

All configuration settings can be saved to a file, which also stores the meters serial number, which is ideal for QA traceability.

The Model N21 accepts 24V DC, 24V AC, 110V AC or 230V AC power as standard and has the capability to give a 24V DC output at up to 30mA to power your 4-20mA loop. A configurable alarm relay is also provided and the N21 can customise the units of measure to suit your requirements.

The alarm relay is rated 250V AC 0.5A Resistive load. It can have a programmable delay from 0 to 3600 seconds to prevent nuisance alarming caused by short term variations.

[More Information](#)



Azbil Vortex Multivariable Flow Meters

The Vortex multivariable flow meters from Azbil North America employ three sensing elements in a single meter: a vortex shedding velocity sensor, an RTD temperature sensor, and a solid-state pressure transducer.

Within this single instrument, you can measure the mass flow rates of gasses, liquids, and steam with far more accuracy than with external measurement techniques which may not adequately compensate for dynamic process conditions.

With the flexibility to install in almost any location—including hot tapping—you can get precise measurements from nearly any location when you need it. Multivariable capability within this single housing can also simplify systems, reduce equipment cost, and ease installation and maintenance hassles.

The wide variety of options and configurations available ensures that there is a meter for any application requirement.

[More information](#)

AMS News



This month appeared to be a slow month for AMS, but still some significant orders were taken by several states. We have also made an agreement to start selling the Aptiflow Averaging Pitot Tubes in our territories. <http://aptiflow.co.uk/index.html>. This a very good and economical range of averaging flow tubes. As I am currently travelling with limiting access to the web a various places it will take some time for me to update the website. If any of our customers have any needs for averaging pitot tubes please contact our competent sales force who will be able to assist you.

Currently I am on a trip around Australia visiting some of the amazing sites that this country of ours offers, thus my newsletters over the next few months will probably be a bit shorter than normal, but I will make every effort to keep our customers up to date with information.

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