

Dear Dirk Kuiper

November 2015, Volume 14, Issue 10



## Michell Instruments MDM50 Hygrometer

The MDM50 Hygrometer from Michell has been designed to make high-speed spot checks of the dew point in air and gases to  $-50^{\circ}\text{C}$  dew point as simple as possible. This completely self-contained instrument weighs only 4kg and is delivered ready to use. Simply connect your sample gas to the Quick Connect fittings, turn on the instrument, and it will automatically begin to measure the dew point of the applied sample.

### Product Features

- Rapid spot-check measurements to  $-50^{\circ}\text{Cdp}$
- T95 to  $-35^{\circ}\text{C}$  dew point in <10 minutes
- Simple operation
- Integral sampling system
- Industrial case
- $\pm 2^{\circ}\text{Cdp}$  accuracy
- 9-point traceable calibration
- 16 hours of operation between charges

[More info...](#)



## Limited Time Offer

5% Additional discounts offered on the complete range of London Electronics instrumentation. Valid for order placement from December 1 till December 23.

[Check It Now!](#)

## Trimec Flow Products Insertion Paddle Meters



### FEATURES

- All stainless steel construction
- Suits pipes 40–2500mm
- Low installed cost
- Simple to install
- Unique head design to extend linear measuring range
- Two independent pulse outputs with high noise immunity (CE compliant)
- High pressure submersible design
- Hot tap option

**IF500 & IF600** are cost effective stainless steel flowmeters for measuring the flow of liquids in pipes sizes 40–2500mm. Insertion flowmeters are installed with the metering head 1/8th into the pipe resulting in very little pressure drop. They do not require external power when used with the Trimec rate totalisers however some options such as high temperature & non-magnetic models require external power. Applications include HVAC, hot & chilled water, fire systems, water distribution (management & treatment), boiler feed water & hydrant flow testing.

[More info...](#)

The [Trimec Flow Products](#) Dualpulse insertion paddle wheel flow transducer is a cost effective means of accurately measuring the flow of water, water-like liquids or a wide variety of low viscosity liquids in completely full, large diameter pipes. The sensor is inserted into the process piping via a suitable fitting. Liquid flow through the pipe results in rotation of the affixed paddle wheel. The rotational speed of the paddle is proportional to the flow velocity, and therefore, proportional to the flowrate in the pipe. Many processes require filtration to clarify the product. Filtration proceeds from coarse filtration by means of separators, decanters, or settling tanks to a final polishing by diatomaceous earth (DE) or other precoat media filters. To control product clarity, a turbidimeter can be installed at the start of the filtration process and in between each filtering step. If product turbidity reaches an unacceptable level, the flow can be automatically recirculated or switched to an alternate filter.

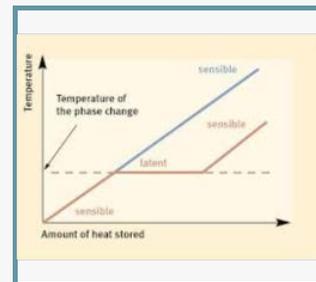
The insertion type design provides a measuring technique that is much less expensive than full bore flowmeters, especially in larger pipe sizes. Insertion paddle wheel sensors are a robust measuring technology that boasts

## Why is latent heat energy-efficient?

Steam can be in two different states:

- a) saturated vapour (gaseous phase)
- b) saturated liquid (liquid phase).

All substances absorb or emit heat during phase transition, including the H<sub>2</sub>O used in the system. The energy that is necessary for such a phase transition is called "latent heat." Steam systems use a latent heat of 2258 kJ per kilogram of vapour at 1 atm. On the other hand, the heat that is stored when a substance is in the gas or liquid form is called "sensible heat." The amount of sensible heat required is smaller than the latent heat. Saturated liquid water at 100°C contains as little as 418 kJ at 1atm. Obviously, latent heat is preferred to sensible heat because there is more energy that can be used.



### AMS News

This is the first newsletter with our new design which hopefully is more readable than the previous versions.

AMS announces with regret that Michael Spalek will be leaving us due to personal reasons this month. There is now a vacancy for a Victoria Sales Manager to take on his role. On a positive note AMS has once again succeeded in obtaining some major orders for Beamex, FCI and McCrometer. Our sales staff are working hard to establish our analytical division (Michell, optek, HITech and ECD) pursuing a range of new projects.



### Interface Load Cells

The 1100 is selected from the best load cells and has very low nonlinearity, hysteresis, eccentric load sensitivity, and temperature sensitivity. With many variants and configurations our fatigue-rated, high-capacity load cells provide up to 100million duty cycles at 1 Million pounds force. The gauge sensors in every model 1100 load cell are individually inspected and tested, and certified to meet our rigid standards. Formed from a unique alloy, our gauges provide very low resistivity, for high signal-to-noise ratios for demanding applications.

[More info...](#)



### Azbil Temperature Transmitters

The Advanced Temperature Transmitter (models ATT60/70) is a field instrument that converts inputs from thermocouples, mVs, and resistance thermobulbs into analog (4 to 20mA) and digital signals and transmits them to receivers. It can also execute two-way communications between the SFC, or HART® 375 communicator, and a database, thus facilitating self-diagnosis, range resetting, and automatic zero adjustment. Easier to maintain Settings, adjustments and self-diagnosis can be done easily by SFC or HART communicator.

[More info...](#)

AMS Instrumentation & Calibration Pty Ltd  
U 210 / 51 Kalman Drive  
Boronia, Victoria , 3155  
Australia  
<http://www.ams-ic.com.au/>  
<mailto:sales@ams-ic.com.au>



Head office Quality Endorsed Company  
ISO 9001:2008  
LRQA / 400452/A

AMS is a member of the following organisations: IICA and Metrology Society of Australia.

You are receiving this email due to previous dealings with AMS-IC

If you no longer wish to receive these emails, simply click on the following link [Unsubscribe](#)

©2015 AMS Instrumentation & Calibration Pty Ltd. All rights reserved.