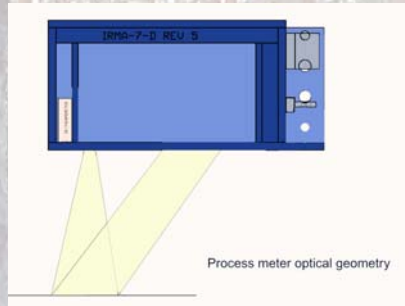


# Better Biofuel Moisture Management

## General

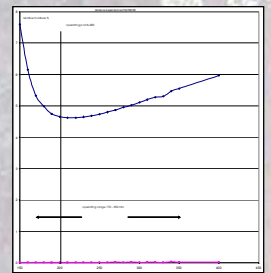
The moisture meter IRMA-7 models are based on Near Infrared (NIR) radiation absorption. The light is sent to the material from a light source. A small part of the light is emitted back to the optical detector. Part of the radiation is absorbed in the material and that is compared to the reference light which is not absorbed. The absorption peak used is at 1950 nm of wavelength.

□ the portable meter is suitable for field and laboratory testing, the process model is best for conveyor systems and other continuous production lines and especially for closed-loop control



## Special features

- wide moisture range (0 - 70 % total)
- wide range of working distance (180 - 380 mm)
- ambient temperature range 0...+35 deg C, up to 120 deg C with purge air cooling
- compensated against %RH and material temperature variations (D)
- applications in sawdust, wood chips, recycled paper, various fiber materials, many non-liquid biofuels
- in-house calibration to customer samples allows for a quick start



Portable moisture meter



Process moisture meter

## Portable meter (model A)

- fully portable for at least 8 hours before recharging
- instantaneous readings and a built-in 4096 point datalogger

## Process meter (model D)

- instantaneous readings for moisture and material surface temperature
- up to 400 readings/s and a built-in datalogger with 4096 points
- variable digital filtering for conveyor conditions
- small & compact structure, serial port, Profibus DP automation fieldbus and analog signal, to either local or remote operator display

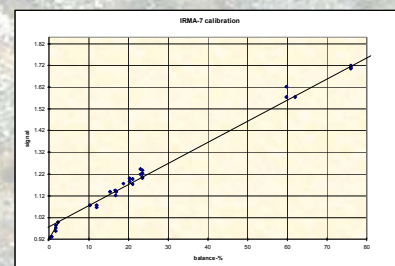
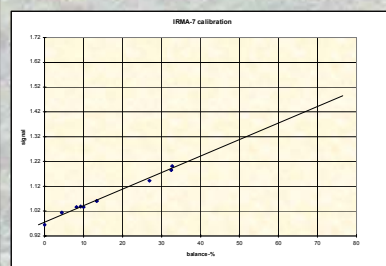
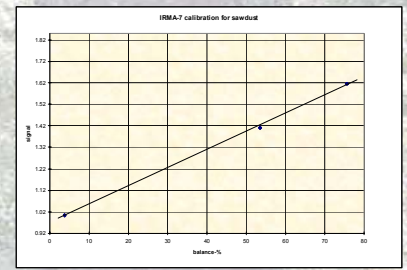
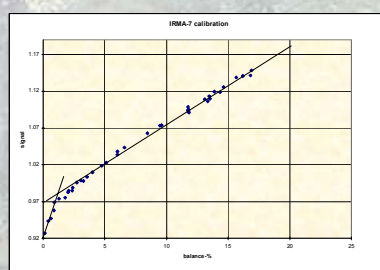
## Analysis and reporting software

- for collecting meter data, suitable for analysis and transportable to external computer systems, like SCADA and DCS
- lots of useful features for data archiving, reporting, statistics, display, calibrations, frequency analysis etc.
- meters have a built-in multi-point calibration recipe for accurate calibration over a wide measurements range. Up to 100 in-house or user recipes available.



## Moisture tester applications

- incoming biofuel checks during loading, unloading and transport
- minimize excessive drying, optimal moisture content
- monitor and automatically control 24hrs/7Days process quality as moisture content
- save environment by saving energy
- use the small meter for various applications in the process



Mr. Henrik Stenlund, managing director  
henrik.stenlund@visilab.fi, Visilab Oy, Lahdentie 58  
FI-04600, Mantsala, Finland, www.visilab.fi

Mr. Urpo Launonen, managing director  
ujl@optusnet.com.au, UJL Pty Ltd, Doncaster East  
59 Bellevue Ave, Vic. 3109, Australia, www.ujlsolutions.com