

Monitor - ISSN 1472-0221

The Newsletter for PC-Based Data Acquisition and Control
Issue 225, May 2017

Welcome to Monitor, the data acquisition and control newsletter. Thanks for subscribing. If you wish to download our free data acquisition software please do so from <http://www.windmill.co.uk/jsarrpsrr.htm>.

You can download this issue of Monitor as a pdf file from <http://www.windmill.co.uk/monitor/monitor225.pdf>.



Contents

- * [Your Data Acquisition Questions Answered](#)
- * [Excel Corner](#)
- * [Data Acquisition News Round-up](#)
- * [Measurement and Control Exhibitions](#)

Your Data Acquisition Questions Answered: How to constantly monitor weight changes?

Weblink: <http://www.windmill.co.uk/logger.html>

Question

Currently having a project to monitor drainage time. Is this software able to constantly monitor the change in weight along with time? For example once the 1st drop of filtrate enter the beaker on the balance I need the software to record the time start and keep recording for 30 sec.

Answer

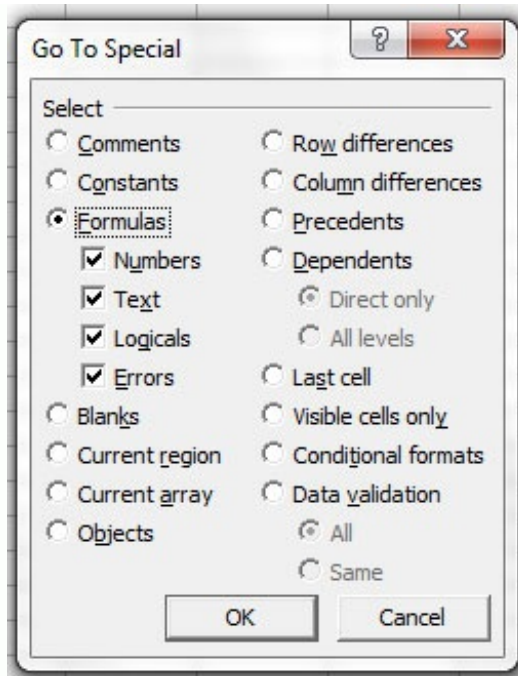
Yes, if you use the Windmill Logger software it will continually log the change in weight and timestamp each reading. You can keep recording for a set time and start logging when the weight on the balance changes.

For more information on Logger and the other Windmill programs see <https://www.windmillsoft.com/>.

Excel Corner: Finding all cells with Formulae

A quick tip this month - how to find in which cells you've entered a formula.

1. Press the Ctrl and G keys to bring up the Go To box.
2. Click the Special button.
3. Choose Formulas and click OK.
4. All cells containing a formula will be highlighted.



For more **Excel tips** see <http://www.windmill.co.uk/excel/>

DAQ News Round-up

Welcome to our round-up of the data acquisition and control news. If you would like to receive more timely DAQ news updates then follow us on [Twitter](#) - [@DataAcquisition](#) - or grab our [rss feed](#).

Robot inspector helps check bridges for dangerous defects

The first fully autonomous robot bridge inspector shuttles back and forth along the side of the road without getting in the way of passing traffic.

The four-wheeled, waterproof, battery-powered device uses ground-penetrating radar and electrical resistivity sensors to locate any corroded steel parts or deteriorating concrete inside the bridge.

Source: New Scientist

<https://www.newscientist.com/>

Indoor GPS Apps Closer to Reality

GPS usually works well outdoors, but what if you're disoriented in a large building such as a museum or a mall? There are no smartphone apps for indoor navigation, but new data collected by the National Institute of Standards and Technology (NIST) and a competition to find the app developers who can make the best use of it may help solve the problem.

Source: NIST

<https://www.nist.gov/>

Study calls for rethink on vehicle emissions tests

Because of testing inefficiencies, maintenance inadequacies and other factors, diesel cars, trucks and buses worldwide emit 4.6 million tons more harmful nitrogen oxide (NOx) than standards allow

Source: University of Colorado Boulder

<http://www.colorado.edu/>

Air Quality Monitoring Markets Growing Worldwide

BCC Research predicts sales growth nearing 9 percent in air-quality monitoring systems worldwide as countries pursue environmental improvements

Measurement and Control Exhibitions

The quarterly update of data acquisition and control exhibitions around the world.

Sensor and Test

30 May - 1 June 2017
Nuremberg Germany
Forum for sensors, measuring and testing technologies worldwide.
sensor-test.de

The Engineering Testing Show

2 June 2017
Derby UK
Sensors, instrumentation, data acquisition and metrology show.
theengineeringtestingshow.co.uk

Africa Automation Fair

6-8 June 2017
Johannesburg South Africa
A platform for the Automation and Control Industry
reedexpoafrika.co.za/AfricaAutomationFair/

Quality Expo + Automation Technology

13-15 June 2017
New York USA
Themes include sensors and smart manufacturing.
qualityexpo-newyork.designnews.com

Automatisa

14-16 June 2017
Bogota Colombia
Exhibition on industrial automation and plant instrumentation.
feria-automatisa.com

Automation Expo

9-12 August 2017
Mumbai India
South-East Asia's largest automation and instrumentation exhibition.
automationindiaexpo.com

Automation

9-6 September 2017
Taipei Taiwan
Industrial automation and robots exhibition.
automationindiaexpo.com

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For previous issues by subject see <http://www.windmill.co.uk/monitorindex.html>

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As a thank you for subscribing we offer you the ComDebug data logging and Com port trouble-shooting software. Log data over RS232, RS422, RS485 or Modbus. Also included is a month's trial of the Windmill 7 logging, charting and control programs. To download go to <http://www.windmill.co.uk/jsarrpsrr.htm>

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