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Intech Instruments Ltd

News: March 2010

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**PID Control
Level Control
Quiz Time**

March History



Mar 1st 1980.

Queen remain No.1 for the 2nd week (of 4) with "Crazy Little Thing Called Love" - Queens' first US number 1 single.



Mar 10th 1998.

Lloyd Bridges, American actor & Father of actors

P.I.D. Process Control

One of the mysteries of control engineering, PID control is a smart way to achieve optimum performance in a process. It's fast, efficient and dedicated controllers are very good at it!



Cruise Control: Adopts a similar principal to PID.

Proportional Band (P controller):

The user defined region where fine control is to operate. Outside of this band, control is coarse.

Integral (I controller):

How fast a system adjusts to set value changes (also known as the Cycle time).

Derivative (D controller):

The attenuating system of PID control, the Derivative function counteracts change to avoid set point 'overshoot'.

You don't have to use all of the control parameters together. In fact in some cases it's better to use only one or two of the control

Beau & Jeff Bridges dies aged 85 in Los Angeles, California.



March 25th 1979.

The first fully functional NASA Space Shuttle, Colombia is delivered to the Kennedy Space Centre prior to its first mission.



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components depending on the process:

Process Variable	Controller Structure to Provide Best Results
Temperature	PID
Pressure	I
pH value	Flow control: PID; tanks: P, or PD
Speed	PI
Flow	I
Level	PID
Conveying (loose material)	I



Shimaden FP93 (left):
Expert PID capability,
ultra smooth control

Level Control ? Intech have the perfect solution for you.

Ultrasonic, hydrostatic, radio frequency, rotary switch, magnetic switch, magnetic float, capacitance, float-less relays, vibrating rod, vibrating fork....The list seems endless and the options are numerous. Make sure you back the right 'horse' for your application.



Clockwise from top left: Magnetic Switch, Ultrasonic, Hydrostaic and Rotary switch sensors are just some of the options available to you. [Contact us for details.](#)

Don't get left behind! Give Intech a Call.



Here's the fun bit:

Q. What's the brand of vehicle that features in this months newsletter?

Correct answers all receive a free visit from an Intech salesman...No? Ok...How about a 2gb pen drive? Hey - its FREE to winners!

Enter your answers using the box on the left.

Well done to John Truman, Sam Hazlett, John Elvy, Chris Sanderson, Ian Hunter, Brent Fraser, Brendan Gorrige, John Atkins, Matt Gorton & Selwyn Duthie who all won last month.

NIVELCO

SHIMADEN

JUMO

You are receiving our monthly newsletter because we think it may be useful to you.

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