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April History



April 12th 1961.

The Soviet Union Wins the space race as Yuri Alekseyevich Gagarin launches into Orbit aboard Vostok 1. He is the first Human ever to leave the Earths atmosphere.



Conductivity

Traditionally, pH is the most common measurement used to assess the 'quality' of aqueous systems. But using pH alone is akin to poor vision - you don't always get the full picture and you may miss some important details.



Conductivity is a measure of how well a material conducts an electrical current. In an aqueous solution electrical charge is transferred by ions. These ions are formed when salts, acids or alkalis dissolve. Since conductivity is highly influenced by temperature (as much as 2% per deg C) so you need to make sure your measurements are temperature compensated.

So why is conductivity important? Well, pH measures the acidity of a solution but doesn't provide a measure of the 'number' of ions that may be floating around. This means that although a solution may have a perfect '7' pH value and as clear to the eye as an alpine spring it could be as toxic as battery acid - Not healthy for processes plants or people.

April 20th 1889.

Adolf Hitler is born at the Gasthof zum Pommer, an Inn in Braunau am Inn, Austria - the 4th of Alois & Klara Hitler's six children.



30th April 2003.

Peter "Possum" Bourne, champion rally driver dies aged 47 in Dunedin Hospital following a tragic incident at Cardrona, Wanaka.



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Polluted Waters: Not a sight we want to see here in NZ

Regardless of the specific methods you use to measure conductivity, an AC current is always employed. If a DC signal was used then both electrodes would be compromised very quickly and the measurement useless.

Right: JUMO CTi-750 conductivity unit.



Typical Applications:-

Power Stations: A lot of water is used in conventional power stations. To avoid considerable corrosion the water must be thoroughly purified and deionised.

Boiler Feed Water: When water is used to generate steam dissolved impurities can be left behind. Over time this leaves surface layers (scale). Boiler efficiency can be reduced by up to 10% very quickly. More importantly, overheating of the boiler can result in serious boiler explosions.

Environmental: We drink plenty of water so it makes sense to keep it as clean as we can and it doesn't hurt to look after the place where we live.

Product Highlight: Intech XU Series

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[Intech Catalogue](#)
ONLINE



SHIMADEN



Launched onto the market earlier in the year the original 2-wire loop powered XU2 has been joined by some other trusty stable-mates. Lets take a look at what they are: -

Intech XU4:-



- Universal Input Transmitter
- Programmable with Simple Software via USB
- No external power required for programming
- No calibration required for range changes
- Fully isolating - 3.75kV
- High accuracy 0.1%
- Heartbeat Status LED
- Standard Outputs: Current **AND** Voltage (woohoo!)

Intech XU2HN & XU2H*



- Single temperature (RTD & TC Input) In-head transmitter
- Programmable via USB
- No external power or recalibration for programming
- 2 wire 4-20mA loop powered
- *XU2H - fully isolating. XU2HN - non isolating.

Well done to all who won last month. Those who replied

should soon receive a USB drive in the post. Thanks very
much for reading our Newsletters.

See you next Month.

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

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