Measurement Canada Metrology approval on the EX flow computer

After a tedious 28 months, ABB has finally obtained Category 3 with Type B Event Logger metrology approval for the XFCG46200/6201EX flow computer.

This approval allows the device to be utilized for custody transfer measurement in Canada. The previous approval only allowed the end user to make changes IF the mechanical hard seal was broken and the security switch was disabled. This resulted in the unit requiring reverification on site and resealing of the device. It involved considerable coordination with approved inspectors or individuals and significant amount of paper work.

So what does this new Category 3, Type B approval do for our Canadian customers?

- **Category 3**: this allows configuration capability, but access is **controlled by a software switch or alternate security means**, as appropriate. The minimum method of sealing and securing is: An event logger is required to secure legally relevant parameters that are accessible through the configuration capabilities and access to the configuration capability shall be controlled by an appropriate security provision. Previously, the event logger was not even recognized by Measurement Canada.
- **Type B Event Logger**: This allows the event records to be utilized as “security”. This was not previously allowed. There are conditions as to how this is handled. Certain events have to be labeled as “Verification Events” or “VTE”. These events are clearly identified and additional paperwork and process by the user must be followed when such configurations etc. that may cause a “VTE” occur.

This approval is a big plus for our organization and future sales to the Canadian market. To my knowledge, this is only the second flow computer to achieve this type of approval. Previously, a user could not even make an orifice plate size change without technically requiring an official inspector to verify that the user did this properly and entered the correct information. Not they can make many configuration changes and normal maintenance without requiring a more burdensome effort. This approval, AG-0608 Rev 1, was officially signed by Measurement Canada on June 27, 2017.

Thank you to each and every one that has been involved in the lengthy process of programming, testing, shipping equipment, phone calls and emails with Measurement Canada, promptly reacting when additional changes were required and re-testing, etc. Your work in finally achieving this goal, after more than 2 years, is so gratefully appreciated.