ABB

TOTALFLOW
Technical Bulletin 84

Potential Data Logging Problem when using two or more communication ports

Totalflow Technical Bulletin

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ABB Automation Inc.

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1. **Purpose**

To describe a potential data logging problem with 6400, 6700, and CB-180 Flow Computer units.

2. **Description**

A problem has been reported that pertains to the Flow Computer. The primary symptom is either too many log records will be entered into one daily record or one or more log records will be too large. See example below:

```
08/02/2000
        Log     Counts    SP     TF     Volume  Uncor Vol  Energy  Flow%    Alarms
    00:00-01:00216000.00  78.90  60.00  216.0000  241.9200  216.0000 100.00 --x- ---- --- x- ---
    01:00-02:00216000.00  78.90  60.00  216.0000  241.9200  216.0000 100.00 --x- ---- --- x- ---
    02:00-03:00216000.00  78.90  60.00  216.0000  241.9200  216.0000 100.00 --x- ---- --- x- ---
    03:00-04:00216000.00  78.90  60.00  216.0000  241.9200  216.0000 100.00 --x- ---- --- x- ---
    04:00-05:00216000.00  78.90  60.00  216.0000  241.9200  216.0000 100.00 --x- ---- --- x- ---
    05:00-06:00216000.00  78.90  60.00  216.0000  241.9200  216.0000 100.00 --x- ---- --- x- ---
    06:00-07:00216000.00  78.90  60.00  216.0000  241.9200  216.0000 100.00 --x- ---- --- x- ---
    07:00-08:00216000.00  78.90  60.00  216.0000  241.9200  216.0000 100.00 --x- ---- --- x- ---
    08:00-10:00432000.00  78.90  60.00  431.9999  483.8400  432.0000 100.00 --x- ---- --- x- ---
    ----------------------------------------------------------------------------------------------
    Daily:   2160000.00  78.90  60.00  2159.9998  2419.2000  2160.0000 100.00 --x- ---- --- x- ---
DP Percent Low:  0.00  Percent High: 100.00  Min: 3600.00  Max: 3600.00
SP Percent Low:  0.00  Percent High:  0.00  Min:  78.90  Max:  78.90
Tf Percent Low:  0.00  Percent High:  0.00  Min:  60.00  Max:  60.00
Backflow:   0.00
C Prime Avg: 1000.00
```

In the above example there were two log periods included in one data entry space (8-10:00). This problem has been seen on both pulse and orifice gas Flow Computer EPROMs.

This problem will only occur if communicating with more than one communication port on the Flow Computer. One port must be running Totalflow "packet protocol" while the other port is running any supported protocol (modbus, Totalflow, etc.) for this problem to occur.

3. **Conclusion**

This database problem will only occur in a very small number of devices. This problem is not wide spread due to the fact that two communication ports must be turned on and configured as described above.

We are actively releasing firmware on all Flow Computer platforms so we can respond with replacement EPROMs, as required. To assist our technical staff please refer to this particular problem using one of these internally recognized terms:

- Subtle X_frame bug

- FIXED X_FRAME.C, XREAD BUG "WKE_TSK(CCU[PORT].PARENT)

We will update any EPROMs that exibit the symptoms described above at no charge. Please call our technical service staff at (800) 442-3097 option 2,2 for upgrade information.