TOTALFLOW

Technical Bulletin 84

Potential Data Logging Problem when using two or more communication ports

Totalflow Technical Bulletin

Version 1.0, Revision AA (1 September 2000)
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
00:00-01:00 216000.00   78.90   60.00    216.0000    241.9200    216.0000  100.00 --x- ---- --- x- ---
01:00-02:00 216000.00   78.90   60.00    216.0000    241.9200    216.0000  100.00 --x- ---- --- x- ---
02:00-03:00 216000.00   78.90   60.00    216.0000    241.9200    216.0000  100.00 --x- ---- --- x- ---
03:00-04:00 216000.00   78.90   60.00    216.0000    241.9200    216.0000  100.00 --x- ---- --- x- ---
04:00-05:00 216000.00   78.90   60.00    216.0000    241.9200    216.0000  100.00 --x- ---- --- x- ---
05:00-06:00 216000.00   78.90   60.00    216.0000    241.9200    216.0000  100.00 --x- ---- --- x- ---
06:00-07:00 216000.00   78.90   60.00    216.0000    241.9200    216.0000  100.00 --x- ---- --- x- ---
07:00-08:00 216000.00   78.90   60.00    216.0000    241.9200    216.0000  100.00 --x- ---- --- x- ---
08:00-10:00 432000.00   78.90   60.00    431.9999    483.8400    432.0000  100.00 --x- ---- --- x- ---
```

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 widespread 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 exhibit the symptoms described above at no charge. Please call our technical service staff at (800) 442-3097 option 2,2 for upgrade information.