



**TOTALFLOW<sup>®</sup>**

***Technical Bulletin 76***

**DP Pressure Correction Problem  
with CB-180 Firmware**

**Totalflow Technical Bulletin**

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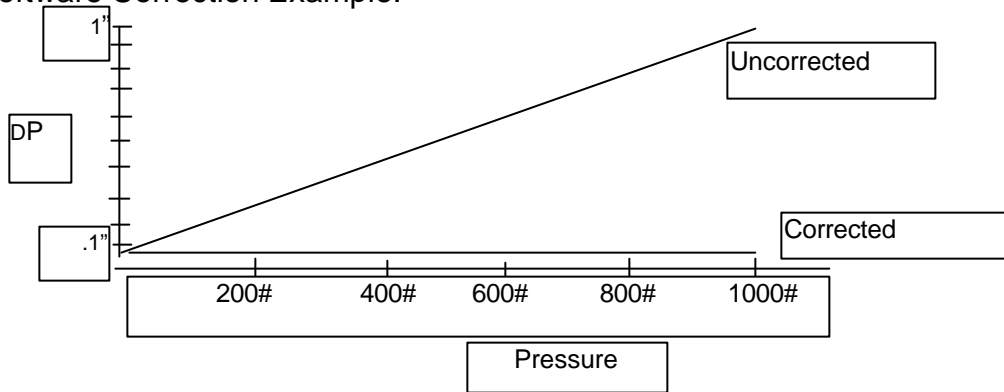
## 1. Purpose

To describe the problem and symptoms related to a small number of 2012803-004 (CB-180) EPROMs. This notification is designed to alert customer's of problems, workarounds, and recommended actions if this situation is identified in the field.

## 2. Description

DP pressure correction software is a standard feature supported in all gas orifice Flow Computers. This software is designed to reduce the DP zero shift caused by line pressure. Normally this shift is not noticeable until line pressure exceeds 200 PSI. Without this software correction, typical DP zero shifts of 1% per 1000 PSI could be seen. With software correction the DP zero shift is reduced to < .1%.

Software Correction Example:



There have been a small number of EPROM's identified that do not provide any DP zero pressure correction. The expected DP zero shift on these units will be based on the transducer manufacturer specifications. As stated above, the DP zero shift specification is 1% per 1000 PSI. The graph above represents the linear shift that will be typical with this problem. The following firmware have been identified with the problem:

2015319-001 and -002  
2015376-002 through -007  
2015377-002 and -003  
2017341-002  
2018424-001 through -004  
C000027-001 through -003  
C000031-001  
C000035-001  
C000061-001 and -002  
C000062-001



C000074-001

Typical errors will be between 0 – 1% of DP range up to 1000 PSI. A maximum error of 2.5% of DP range could be observed with pressures up to 2500 PSI.

This problem has been identified with the 2012803-004 (CB-180) board used in the older model 6600 Flow Computer Units. This problem does not exist with the model 6400 or 6700 Flow Computer.

### **Conclusion**

If you discover one of the above EPROMs, call our customer service 800 number for a free replacement. The phone number is (800) 442-3097 option 2.