



**TOTALFLOW®**

***TechBull 66***

**Field Procedures for Wiring  
Power Termination's on the  
Model 8000/8100 Btu/CV  
Transmitter**

**Totalflow Technical Bulletin**

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## **Field Procedures for Wiring Power Termination's on the Model 8000/8100 Btu/CV Transmitter**

### **1. Purpose:**

**To prevent down time and unneeded expense from damaged boards.**

### **2. Usage:**

**On any Model 8000/8100 Btu/CV Transmitter shipped before July 1998 which has not yet been installed or is to be re-installed at a new location.**

**Or:**

**On any Model 8000/8100 Btu/CV Transmitter that is to have any other wiring termination's other than 12Vdc power in the Exd box.**

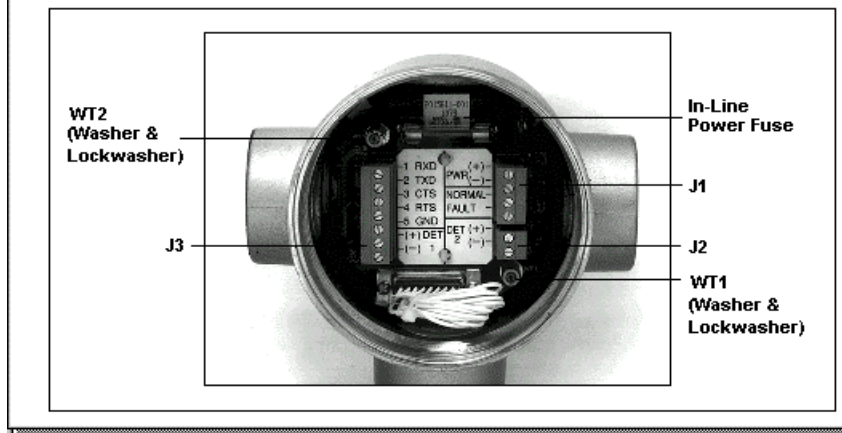
### **3. Procedure:**

**When installing the Model 8000/8100 Btu/CV Transmitter, care should be taken to verify both the voltage and polarity of any wiring coming into the Exd box shown in Fig. 2-13 (From page 67 in the Model 8000/8100 Btu/CV Transmitter O&M manual, or page 5 of the "Btu Getting Started Manual"), especially the 12 Vdc power for operating the unit.**

**Failure to do so on any units built before July of 1998 will result in possible damage to the circuit boards inside the Btu Transmitter. Damage to these boards due to miss applied voltage will be warranted.**



**Figure 2-13. Power I/O Junction Box**



The Power connections, “+” and “-“ PWR in the Exd enclosure shown, are currently protected from inadvertent over voltage by an MOV on all units.

On any units shipped after July, 1998, these terminals are also protected from polarity reversal by a diode. Reversing the polarity will result in a burned out inline fuse. When the voltage is reversed, you will see the light, momentarily. An extra fuse will be included in the Exd enclosure for when and if this happens.

A modified Exd termination board is available from customer service to upgrade a Model 8000/8100 Btu/CV Transmitter unit in the field prior to installation of your to protect against reversed voltage if one is desired.

**NOTE:**

If your unit is now successfully installed, this note does not apply and there is no danger of damage to your unit. It would only apply if you intend to move the unit and re-wiring is required.

**Warning:**

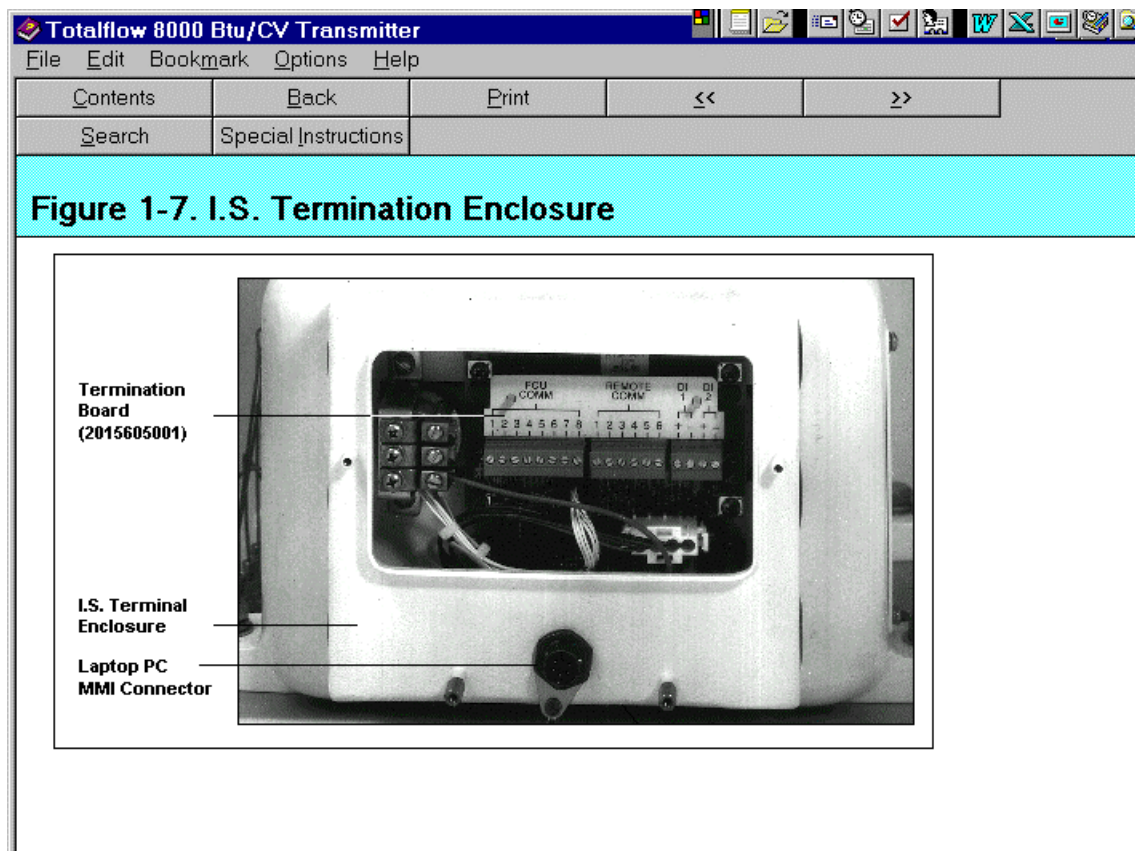
Please note that there are other terminals in the Exd enclosure in Fig. 2-13 that are for RS 232C serial digital communications,



Chromatogram mV outputs, and digital outputs. If voltage, A/C or DC,

is applied to any of these, damage may be done to the circuit boards inside the unit and this damage will not be covered by the warranty.

Also, there are serial digital outputs on the I.S. (intrinsic safe) termination enclosure (See figure 1-7 below). If voltage, A/C or DC, is applied to any of these, damage may be done to the circuit boards inside the unit and this damage will not be covered by the warranty.



Please refer to the Operation and Maintenance manual for correct wiring instructions on these terminals.

