

QUICK SET-UP INSTRUCTIONS

TIO Totalizer-Input/Output Flow Monitor/Controller



TIO MOUNTING AND PARAMETER CONFIGURATION INSTRUCTIONS

STEP 1: TIO Mounting

1. Using a 3/16" hex nut driver unscrew the 4 original screws (A) from the **TIO** and GFM/GFC D-connectors.
2. Use the 4 screws (C) from the mounting kit to attach the mounting bracket (B) to the **TIO** and GFM/GFC. Make sure the bracket is properly aligned with both D-connectors.

STEP 2: TIO Parameters Configuration

2.1 “**Device Function**” parameter must be set according to mated device function:

- 2.1.1 From the **TIO** main PI screen press “**ESC**” button.
- 2.1.2 Highlight “**Program Protection**” menu option and press the “**ENT**” button.
- 2.1.3 Highlight “**Disable**” menu selection and press “**ENT**” button.
- 2.1.4 Using “**Dn**” button, scroll down to highlight “**General Settings**” menu selection and press “**ENT**” button.
- 2.1.5 Select “**Device Function**” menu selection and press “**ENT**” button.
 - a) If the **TIO** is mated to the GFM flow meter select “**Meter**” and press “**ENT**” button.
 - b) If the **TIO** is mated to the GFC flow controller select “**Controller**” and press “**ENT**” button.
 - c) If the **TIO** is mated to third party device set “**Device Function**” parameter according to mated device function.

2.2 “**Full Scale Range**” parameter must be set according to mated device Full Scale Range.

- 2.2.1 From “**General Settings**” menu scroll down to select “**Device Calibration**” menu selection and press “**ENT**” button.
- 2.2.2 Select “**Full Scale Range**” menu selection and press “**ENT**” button.
- 2.2.3 Using “**Up**”, “**Dn**”, “**Left**”, “**Right**” buttons, adjust **Full Scale Range** parameter to be equal to the Full Scale Range of the mated device converted to **litr/min** units. When done, press “**ENT**” button to save new settings.

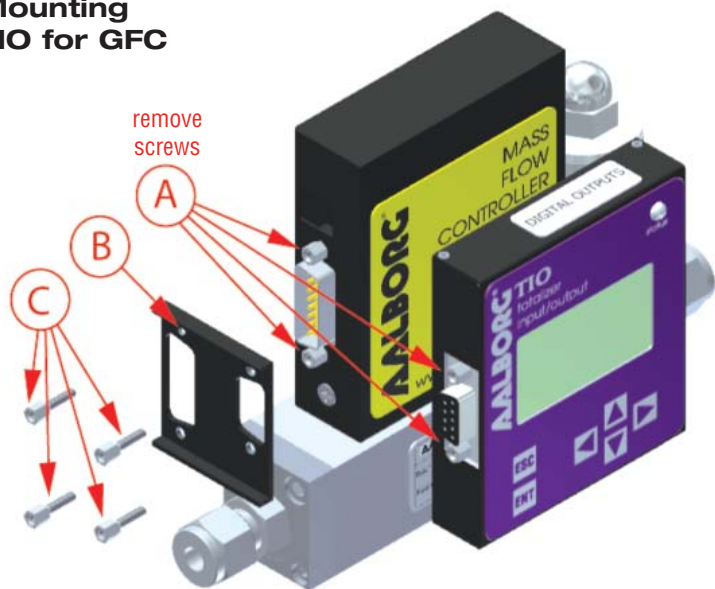
2.3 “**Fluid Std. Density**” parameter must be set according to mated device Operating Fluid density. This parameter is required only when mass based engineering units are selected.

- 2.3.1 From “**Calibration Menu**” scroll down to select “**Fluid Std. Density**” menu selection and press “**ENT**” button.
- 2.3.2 Using “**Up**”, “**Dn**”, “**Left**”, “**Right**” buttons, adjust the Fluid Std. Density parameter according to mated device **Operating Fluid** density in **gram/litr**. When done, press “**ENT**” button to save new settings.



NOTE: If “**Full Scale Range**”, “**Device Function**” and “**Fluid Std. Density**” parameters are not set properly the device may have erroneous readings and unpredictable behavior.

Mounting TIO for GFC



Mounting TIO for GFM

