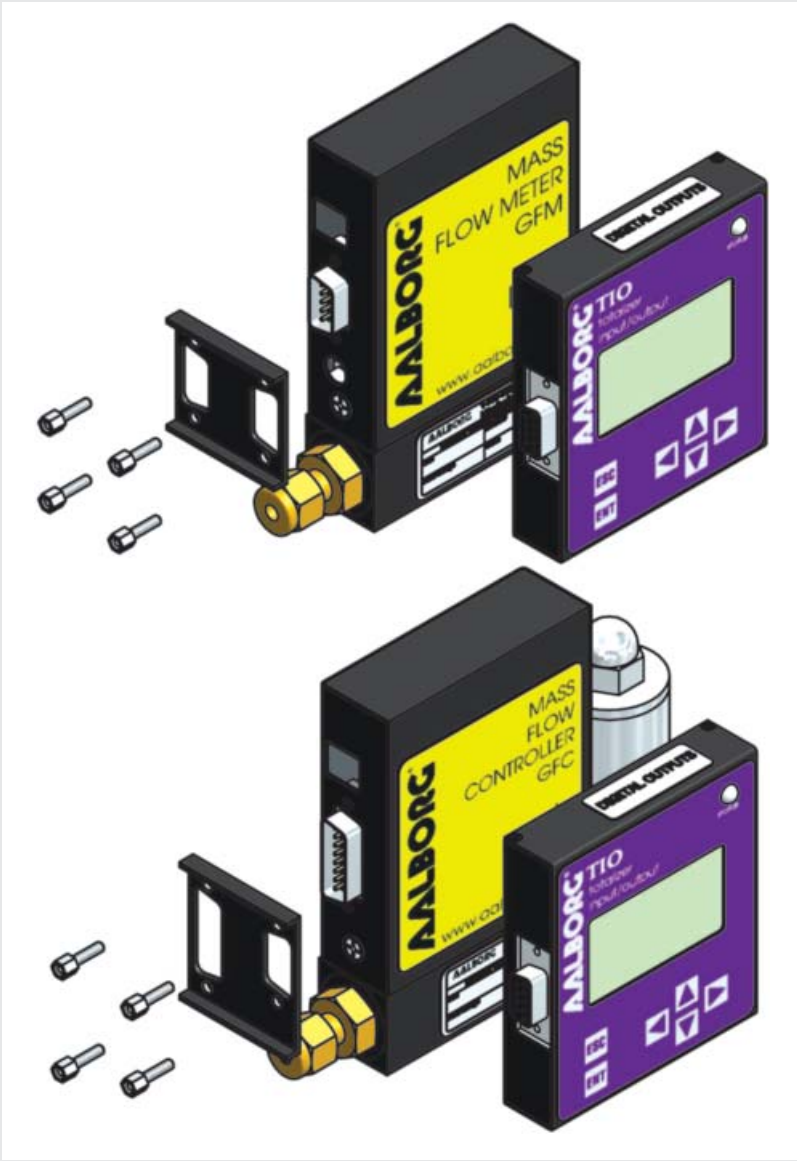
QUICK SET-UP INSTRUCTIONS

TIO Totalizer-Input/Output Flow Monitor/Controller



Technical Data Sheet No. TD-TIO-0312-QS
Date of Issue: March 2012

TIO MOUNTING AND PARAMATER 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.

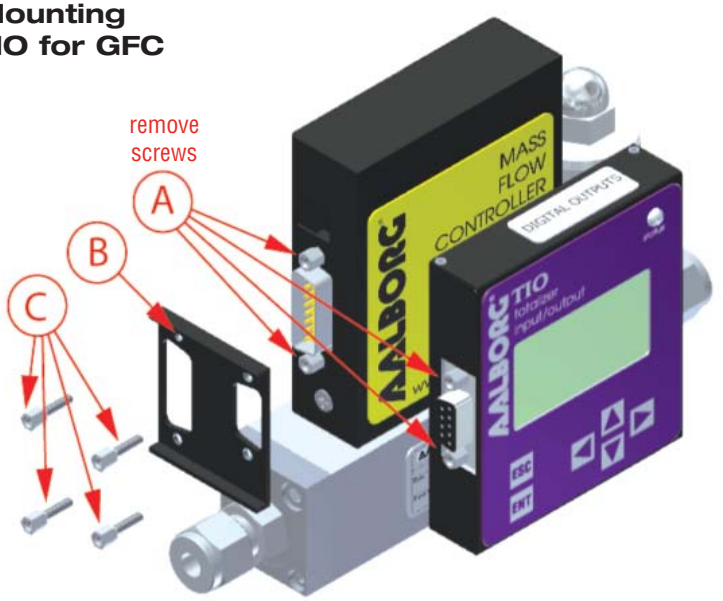
- **2.2.1** From **"General Settings"** menu scroll down to select **"Device Calibration"** menu selection and press **"ENT"** button.
- **2.2.2** Select **"Full Scale Range"** menu selection and press **"ENT"** button.
- **2.2.3** Using **"Up"**, **"Dn"**, **"Left"**, **"Right"** buttons, adjust **Full 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.

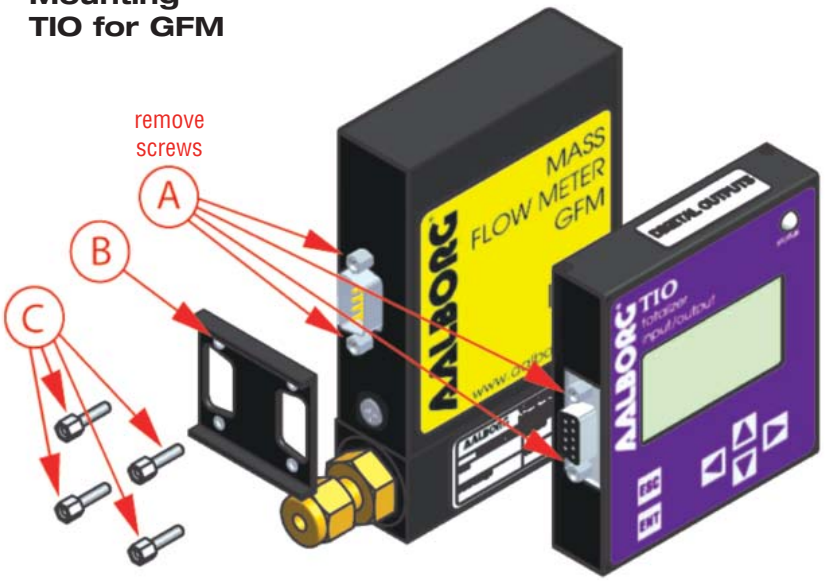
- **2.3.1** From **"Calibration Menu"** scroll down to select **"Fluid Std. Density"** menu selection and press **"ENT"** button.
- **2.3.2** Using **"Up"**, **"Dn"**, **"Left"**, **"Right"** buttons, adjust the Fluid Std. Density parameter according to mated device **Operating Fluid** density in **gram/litr**.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



⚠ CAUTION:

This product is not intended to be used in life support applications!

AALBORG®

20 CORPORATE DRIVE • ORANGEBURG, NY 10962 • PHONE: 845.770.3000 • FAX: 845.770.3010
e-mail: info@ aalborg.com • toll free in usa or canada: 1.800.866.3837 • web site: www.aalborg.com