FOAMPRO®
A Safe Fleet Brand

FoamPro 1600 - 3012 Calibration and NFPA Test Kit

Form L-0941
Rev. 1/20

The FoamPro Calibration Kit 3430-0830 provides the OEM or end user with an easy-to-use, accurate tool for calibrating and testing the FoamPro 1600, 2000, and 3012 systems. This kit is intended to replace the bulky, very inaccurate and hard-to-use calibration containers with a calibrated flowmeter device that is easy-to-use, accurate, and compact. Also included is a small, graduated container for checking the very low flows required in the NFPA test cycle.

Regardless of the system this kit is used for, follow the procedures in the appropriate Operator's Manual for the system you are trying to calibrate, check calibration or run NFPA tests. The instructions below will help you operate the kit in a proficient manner.

- Assemble the calibration kit as shown in Figure 1. The kit comes with 1/2" NPT threads on the inlet pipe for easy connection with a low pressure hose and hose barb for calibration, or a high pressure hose connection for usage in NFPA tests. The hose leading to the inlet should be 1/2" ID hose rated to a minimum of 100 psi for calibration use or 400 psi for NFPA test use. The discharge hose going to the apparatus tank or a container should be 1/2" ID also and should be rated to at least 100 psi. The hose should be compatible with the foams being used.

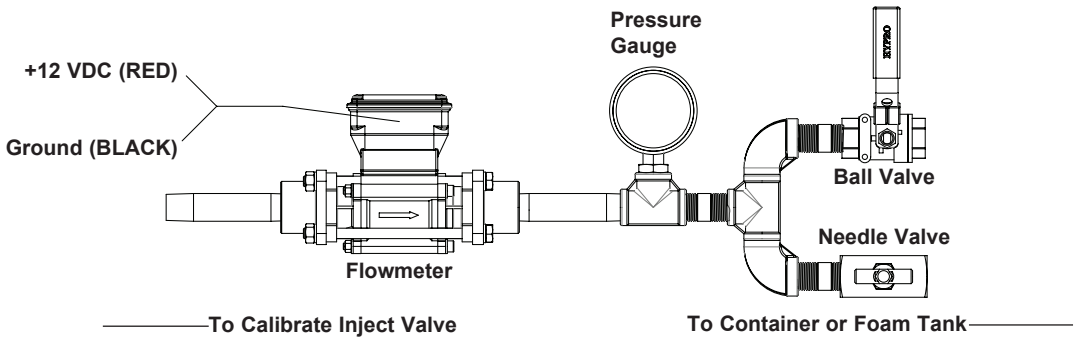

Figure 1

- Power for the flowmeter is 12 VDC and can be taken directly from the battery, from a separate clean 12 VDC source on the apparatus, or from a small 120 VAC wall charger converter that has a capacity of at least 500 mA at 12 VDC. The RED wire is +12 VDC and the BLACK wire is ground.

- The flowmeter supplied is equipped with software that has been set to the flow rate mode in US units (GPM). It may be necessary to change the flowmeter units to EU (LPM). To change the unit of measure, follow the instruction as follows :

  ► While powering up the flowmeter, press and hold the ▲ TOT button on the device until the options menu appears [oPt]

  ► Press either button until [unit] alternating with either 'EU' (lpm) or 'US' (gpm) is shown on the display

- ► To change the display to ‘EU’ or ‘US’, press and hold both buttons until [SEt] is displayed.
- ► Press one of the buttons until ‘EU’ or ‘US’ is displayed.
- ► Confirm the selection by pressing both buttons until [SAVE] is displayed.
- ► The [oPt] will appear on the display.
- ► You can now disconnect the power and the flowmeter has been set to the units selected.

- The flowmeter has 2 modes of operation. One mode is the instantaneous flow rate mode, the other is the total flow mode. When the flowmeter is first powered up it will display:
  - ► Software version: U 1.5
  - ► Unit of measurement: [GPM] or [LIt]
  - ► Data displayed: [000]
  - ► The flowmeter is now set to read the instantaneous flow rate by default and is ready for operation.

- To change the operating mode to the total flow mode, press the TOT button and the display will read [tot] and then [000]. The flowmeter is now in the total flow mode. To change from the total flow mode to the instantaneous mode, press the TOT button and the display will read [GPM] and then [000].

- To reset the total flow displayed to ‘0’, press and hold the RESET button until [rSt] is displayed. The display will then show [tot] and then [000]. The flowmeter is now reset to 0.

- When calibrating a FoamPro system, it is important that the calibration is done with a back pressure on the foam pump of 55 to 75 psi. The calibration kit comes with a pressure gauge to read the back pressure and a ball valve to restrict the flow and cause the desired back pressure.
- When using the kit for NFPA testing, the ball valve adjustment for back pressure should be sufficient. Use the needle valve with the ball valve closed for the very low flows. These low flows will require the use of the graduated container provided.

  CAUTION: Either the ball valve or the needle valve should always remain in an open condition to keep the system from exceeding the pressure rating of the system and causing possible damage.

- When storing the kit, flush with warm water until clean and store properly in the provided case.

FOAMPRO®
A Safe Fleet Brand
26 Southern Blvd. • Nesconset, NY 11767 USA
Phone 800-533-9511 • FAX 816-892-3178
www.foampro.com

FoamPro (1/20)
Printed in USA

FRC
A Safe Fleet Brand
26 Southern Blvd. • Nesconset, NY 11767 USA
Phone 800-645-0074 • FAX 816-892-3178
www.fireresearch.com