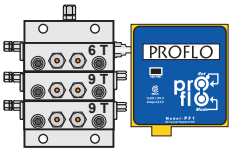
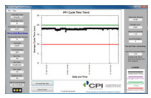
Proflo® PF1 Monitoring Device

Monitors Operation of ALEMITE - LINCOLN,- TRABON - - LUBRIQUIP - SB - DROPSA* Divider Block Systems

Proflo®
Divider Block Monitor
And Compressor
Shutdown Protection

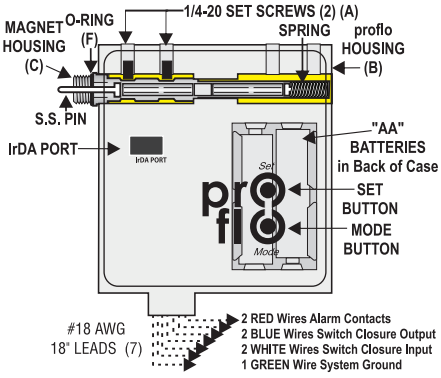


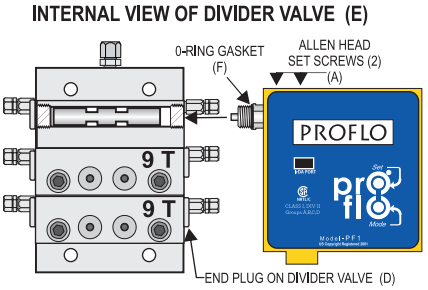
+ Proflo™ USB-IR and Proflo™ Assist Software



= TOTAL COMPRESSOR PROTECTION

WARNING: WELDING ON THE COMPRESSOR SKID OR PIPING WITH THE PROFLO WIRING CONNECTED TO ANYTHING WILL DESTROY THE PROFLO ALARM CIRCUIT OR CAUSE THE UNIT TO FAIL PREMATURELY. THIS WILL VOID THE PROFLO WARRANTY!





Installation Procedure for Proflo® PF1

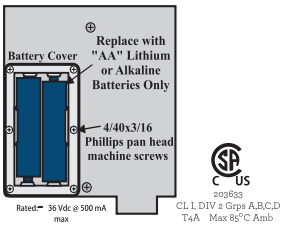
1. Loosen all Allen head set screws (2) (A) on top of proflo case and remove magnet housing (C).
2. Remove end plug (D) from end of divider valve where Proflo® PF1 will be installed. The Proflo® may be installed on any convenient divider valve, top to bottom or on either side.
3. Be sure 0-ring (F) is in place on Proflo® magnet housing (C).Screw magnet housing (C) into end of divider valve (E).Torque to 15 foot pounds max.
4. Slide Proflo® the way on magnet housing (C). **Do Not** Over tighten set screws. 15 inch pounds max.
5. The LCD on the Proflo® indicates cycle time. Correct operation of the Proflo® can be verified by the compressor running or by manually pumping oil through the divider valve assembly with a hand purge gun. The LCD enables the operator to adjust the lubricator pump for correct cycle time. Recommended cycle time can be found on a tag on top of the lubricator box or by contacting the compressor manufacturer or the engineer who designed the lube system. If cycle time cannot be identified contact CPI at 800-664-4033
6. **NOTE:** All conduit and connections should be appropriate for area classification.
7. After installing the Proflo® or performing any maintenance on the lubrication system, compressor cylinders or packing, it is necessary to pre-lube the complete system with a purge gun to purge air from the divider blocks and all components -------- "BEFORE COMPRESSOR START-UP"

The Proflo® must be installed with the correct magnet assembly for each divider block manufacturer

Alemite, SB & Trabon
Part #0-PF-TMA w/ O-ring

Dropsa
Part #0-PF-DMA - ¼" BSP

Lincoln
Part #0-PF-LMA- w/ O-ring



Instructions for Replacing the "AA" Alkaline Batteries

Remove Phillips screws (6) located on battery cover on back of the proflo case. Remove cover to expose batteries. **NOTE: Remove the plastic sleeves covering old batteries and slide plastic sleeves on new batteries before installation. After Inserting new batteries press the mode button until LCD displays "BATTERY". This tells the Proflo® to check battery power and reset to actual remaining battery power.** Replace battery cover, screws and gasket. Do Not over tighten screws. NOTE: If screws on battery cover are lost, replace with 4/40 x 3/16 phillips pan head machine screws.

Having Packing, Rod or Cylinder Wear Problems?
Ask about the proflo "Single Point Test Kit" to Test the Reliability of the Divider Block or Lube Pump at Each Injection Point.

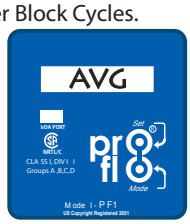
WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT OR CHANGE BATTERIES WHILE CIRCUIT IS LIVE. BATTERIES MUST ONLY BE CHANGED IN A NON-HAZARDOUS AREA.

*ALL TRADEMARK NAMES ARE THE PROPERTY OF THEIR RESPECTIVE COMPANIES AND NOT ASSOCIATED WITH CPI.

Proflo® PF1 Monitoring Device -Button Operation & Wiring Instructions

First Push Set Button to Clear Alarm:

Display Will Indicate "**LAST**" & "**AVG**". "Last" is the Last Divider Block Cycle Time. "AVG" is the Average Time in Seconds of the Last Six Divider Block Cycles.

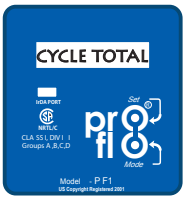


1. Push Mode Button:

LCD will Display "**NOW**". This is a built in Stop Watch to Enable the Operator to Easily Set Cycle Time of the Lube System by Adjusting the Lubricator Pump

2. Push Mode Button:

LCD will display "**RUN TIME**" Indicates Total Run Time Hours of Lube System

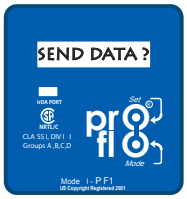


3. Push Mode Button:

LCD will display "**CYCLE TOTAL**" This Mode Displays Total Divider Block Cycles

4. Push Mode Button:

LCD will display "**BATTERY 100 PCNT**" This Mode Displays the Remaining Battery Life **"AA" Lithium or Alkaline Batteries**

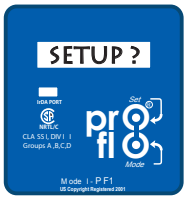


5.Push Mode Button:

LCD will display "**SEND DATA?**"

This Mode is Used to Send Divider Block System Information to Palm Device: Push "Set" Button, LCD Will Display "SENDING". If the Palm Device is Not Available to Receive the Data the LCD Will Display "FAILURE" and Return to Last and AVG Default Display.

Contact CPI for Information on "FFT" Software for Wireless Download of Lube System Oil Consumption &Trend Data From the Proflo® to Handheld Devices with Palm Operating Systems



6. Push Mode Button:

LCD will display "**SETUP?**" In this Mode You can Set the Alarm Shutdown Time & Change the Wiring Mode to N/O or N/C

To Change Alarm Time & N/O-N/C Wiring Operation

1. Push mode button until display reads "**SETUP**?
2. Push "**Set**" Button, LCD Will Scroll "**1. SET ALARM TIME**"
3. Push and release "**Set**" Button to Change Alarm Time From 30 Secs. to 240 Secs.
4. Push "**Mode**" Button 2 more times and LCD Will Scroll "**2. SET ALARM MODE?**"
5. Push "**Set**" Button to Toggle from **N/O and N/C** Wiring Mode.

How to Setup proflo for Normally Open -N/O or Normally Closed -N/C Wiring

1. Push and release "**MODE**" button until "**SETUP**" is displayed.
2. Push the "**SET**" button and the LCD will scroll "**1. SET ALARM TIME**".
3. Push the "**Mode**" button again and the LCD will scroll "**2. SET ALARM MODE**"
4. Push the "**SET**" button to show current Alarm Wiring Mode setting.
5. Push "**SET**" button again to change display to read: **"N/O" for Normally Open Alarm Mode** or **"N/C" for Normally Closed Alarm Wiring Mode.** After desired wiring mode is set, the proflo will automatically return to the Last and AVG display In 30 seconds.

WiringInstructions

Blue Wires: Transistor Pulse Output with Each Divider Block Cycle: 36 Vdc @ 500mA max. The two (2) blue wires are used to send a transistor pulse output with each divider block cycle to a PLC or Digital Counter. DO NOT use both Alarm Wires (RED) and Switch closure Wires (BLUE) at the same

White Wires: To be Connected to a Proximity Switch with a Dry Contact Switch Closure. This Enables the Operator to Mount the proflo in the Control Panel. Install a proflo proximity switch on the divider block. Mount the proflo in a convenient location on the compressor frame or in the control panel. Connect the two (2) white wires from the proximity switch to the white wires on the **Proflo®**. To mount the proflo in the control panel order Part # PFPMT-1

Red Wires: Alarm Shutdown to Control Panel for No-Flow Shutdown. Switching Capacity: 36 Vdc @ 500 mA max. Normally Open Wiring: Connect 1 Red Wire to the Control Panel Terminal & 1 Red Wire to the Earth Ground in Control Panel. Normally Closed Wiring: Connect 1 Red Wire to the Positive Terminal in Control Panel & 1 Red Wire to the Common in Control Panel.

Normally Closed Wiring: Connect 1 Red Wire to the to the Positive Alarm Contact in Control Panel & 1 Red Wire to the Common in Control Panel.

Proflo™ USB-IR and Proflo™ Assist Software

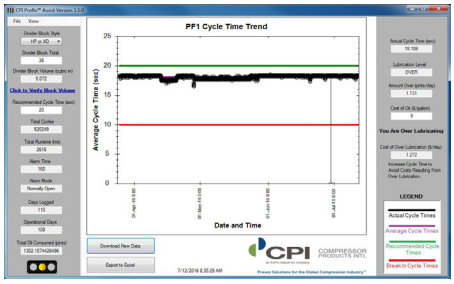
Description

The Proflo™ USB-IR Adaptor and Proflo™ Assist Software have been designed to work with the Proflo® PF1 monitoring device to allow the user to translate data collected from the PF1 to adjustments needed on the existing lubrication pumps, assisting in reducing over or under-lubrication.

The Proflo™ USB-IR adaptor is designed to allow the direct transfer of information from the PF1 device to the user's computer. The PF1 monitoring device records the average cycle time for each 30 minute block of operation and can transmit this information via infrared signals. The Proflo™ USB-IR adaptor then captures the IR signals that are broadcasted by the PF1 device, and, through the use of the software, translates those signals into information that the user can use to regulate their lubricator pumps.

Features

- User friendly software
- Small and portable USB
- Immediate data collection
- Can retrieve information that has been stored
- on the PF1 device for months
- One Adaptor can be used on all of the user's
- PF1 devices
- Recommended pump adjustments
- Save data in Excel format
- Easy to view trend graph
- Cost savings analysis



Includes

- Proflo™ USB-IR Adaptor
- Start up instructions with link to Proflo™ Assist
- Software and user instructions
- 6 ft. (1.8 meter) USB Male to Female Cable

PART NO.	DESCRIPTION
6500400000PFUSB	Proflo™ USB-IR Adaptor Kit