



PROFLO® PF2

Committed to keeping your compressors operating safely, reliably and economically.

The Proflo® PF2 is a programmable shutdown device used to monitor the lubricant flow of divider valve metering systems. Cycle times are continuously monitored and communicated through both the LCD display and the LED indicator lights. The Proflo® PF2 is a learning device that monitors and calibrates to the installed magnet assembly. This eliminates the historic issue of devices not working with all magnet assemblies requiring field adjustments for optimal function.

The Proflo® PF2 allows users to configure the relay outputs which feature a shutdown alarm and a pulsed output signal or warning alarm. New diagnostic tools allow users to easily test the device functionality and validate settings, simplifying installation and troubleshooting. The Proflo® PF2 operates on a field replaceable lithium battery or DC power input and installs on either side of a divider block or in a remote location control panel. The Proflo® PF2 is certified for global markets and hazardous locations.

NEW FEATURES & IMPROVEMENTS

Device Certifications

ETL, CE ATEX, IECeX, UKCA, FCC, ISED

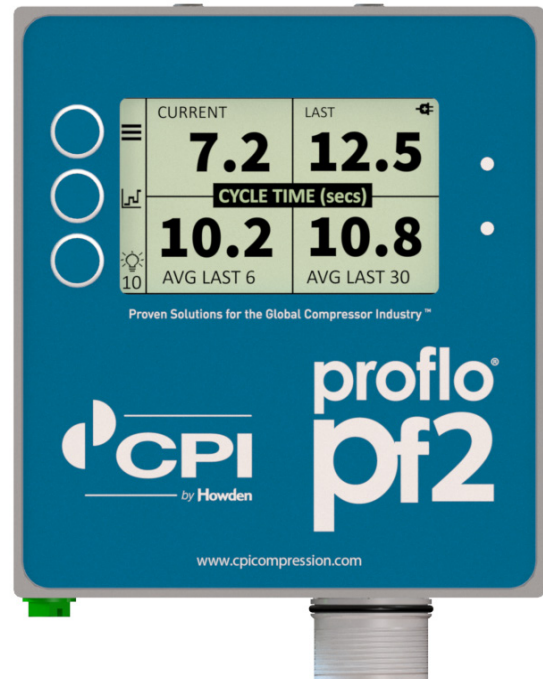


Diagnostics & Test Mode

- On-board diagnostics tools and Test Mode to help troubleshoot installation and operation problems.
- Test Mode function allows the users to manually activate the output relays and confirm correct wiring and signal connections.

Large LCD Screen & LED Indicator Lights

- Home screen displays four cycle times to accurately set and maintain the target rate: Current, Last, Average of Last 6, and Average of Last 30.
- Large LCD screen allows for improved visibility from a distance in applications without easy access.
- Backlight feature for low light conditions, configurable based on power source and application needs.
- Bright LED Indicator lights for device status under various lighting conditions.



Quick-Disconnect Cable Connection

A robust quick-disconnect cable helps when replacing or moving devices quickly and safely within hazardous location applications. Cable with wire identifiers simplifies installation and prevent wiring mistakes.

Visual Trend Graph

The visual trend graph displays the last 30 cycle times, enabling users to easily visualize the cycle time pattern. A lack of visibility of cycle time patterns results in users continually adjusting the system to individual cycle times rather than the pattern and long-term average.

Wireless & Modbus Communication

- Wireless Communications enabled for data downloads and software updates via mobile app for IOS and Android phones.
- Serial Modbus Communications for remote control of device settings and transfer of operational data.
- Software updates will manage future customer needs and upgrades.

Second (Configurable) Output Circuit

Second output circuit can be used for a Pulsed Output or a Warning Output, selectable as NO or NC.

NEW FEATURES & IMPROVEMENTS (CONTINUED)

Replaceable Lithium Battery

Lithium battery features a robust connection for fail safe operation and ease of replacement.

Device Identification Option

Each device is serialized and can have a user defined ID to aid site and device management.

Programable Alarm Output

Programable alarm time from 5 sec. to 300 sec. (5 min.).

Power Supply

Each unit features Battery and DC power input options.

Magnet Assembly

Improved design for longer life, cold weather performance, and optimized interaction with the Proflo® PF2.

Data Storage

The device stores data for approximately 1 year including Short-Term and Long-Term cycle time averages, Total Run Time, Alarm Events and Power Cycle Events.

Encapsulated Electronics

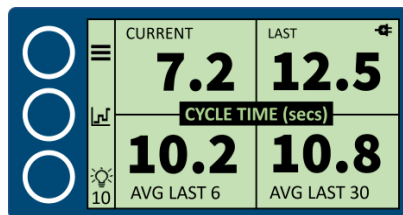
Device electronics are encapsulated to eliminate shock and vibration failures and improve overall performance.

SPECIFICATIONS

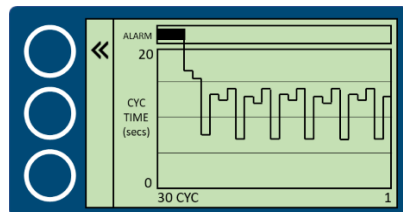
Housing Material	Aluminum Alloy
Ingress Protection	IP 66
Temperature Rating	-40F to 140F (-40C to 60C)
Power Supply	24VDC or Field Replaceable Battery*
Switch Ratings	Non-Hazardous Location: 100VDC, 125VAC (100mA MAX) Hazardous Location: 24VDC (50mA MAX)**
Alarm Time	Programmable 5 to 300 Seconds
Ratings	Ex ia [ia] IIC T4 Ga CLASS 1, ZONE 0, AEx ia[ia] IIC T4 Ga CLASS 1 DIV 1, GROUPS A B C D, T4
Quick-Disconnect Cable	12 conductor, 20awg, Oil Resistant, PVC Outer Jacket with inner Braid Shielding, -40F to 190F (-40C to 90C)

* see instruction manual for special conditions of use

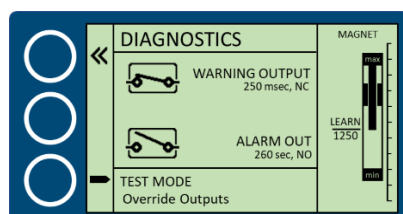
** see instruction manual for installation requirements in Hazardous Locations.



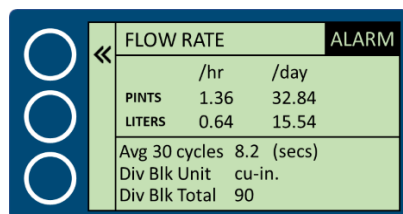
Home Screen



Visual Trend



Diagnostics & Test Mode



Flow Rate

SIZE AND WEIGHT

Width (excluding magnet assembly)	3.9 inches (100 mm)
Height	4.3 inches (110 mm)
Depth	1.6 inches (40 mm)
Weight (including battery)	1.8 pounds (820 grams)

CERTIFICATIONS

UL: 60079-0, 6007-11, 61010-1
CSA C22.2: 60079-0, 60079-11, 61010-1-12
EN IEC: 60079-0, 60079-11
CSA: ETL21CA104173915X
ATEX: ETL21ATEX0042X
UKEX: ITS21UKEX0329X
IECEX: ETL21.0054X



MAGNET ASSEMBLIES

The Proflo® PF2 must be installed with the correct magnet assembly for each divider block manufacturer.

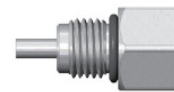
DropsA

No Gasket, Raised Shoulder



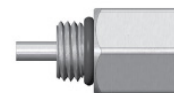
Lincoln

O-Ring Seal, Extended Nose, 7/16" - 20



CPI HP+ / XD + (Trabon)

O-Ring Seal, 7/16" - 20



PROFLO® PF2 DEVICES

Part No.	Description
65004000000PF2	Proflo PF2 without Magnet & Cable
65004000000PF2T	Proflo PF2 with Trabon Magnet, No Cable
65004000000PF2D	Proflo PF2 with DropsA Magnet, No Cable
65004000000PF2L	Proflo PF2 with Lincoln Magnet, No Cable
65004000PF2T02M	Proflo PF2 with Trabon Magnet & 2 Meter Cable
65004000PF2T02M	Proflo PF2 with DropsA Magnet & 2 Meter Cable
65004000PF2D02M	Proflo PF2 with Lincoln Magnet & 2 Meter Cable

DropsA® is a registered trademark of DropsA USA, Inc.
Trabon® is a registered trademark of Graco, Inc.

COMPONENTS & ACCESSORIES

Part No.	Description
65004000095775T	Magnet Assembly (Trabon)
65004000095775D	Magnet Assembly (Dropsa)
65004000095775L	Magnet Assembly (Lincoln)
650140000095964	Battery, 3.6V Lithium
6500400PF2CC02M	Connector Cable, 2-Meter
650140000095787	Mounting Bracket Kit
650140000096085	Replacement Seal Kit
650140000096086	Replacement Hardware Kit



What is Proflo® PF2 Analyzer?

Proflo® PF2 Analyzer is a FREE computer program that can be installed on any Windows based PC. Analyzer program is used to evaluate downloaded data from PF2 device via PF2 Connect app. The program utilizes saved PF2 settings and collected data to provide graphical representation of flow rate trend, alarm times and power events.

FEATURES

Cycle Time Average

Average cycle times based on 6 cycles and 30 cycles displayed on the graph. The PF2 Analyzer software, by offering a trend perspective on cycle times for the mean of 6 and 30 cycles over a period of up to one year, serves as a significant instrument for examining past lubrication rates.

Flow Rate

Display flow chart in Pints / Liters per day or per hour based on Divider Block parameters to determine when flow rate has changed and track it back to a specific time and date. The PF2 Analyzer software can determine the flow rate by programming divider block parameters into the PF2. This calculated rate can then be shown as a trend value in either Pints or Liters per day or per hour.

Alarm Times

Track alarm times to determine a pattern and frequency to troubleshoot issues that are causing alarms or shot downs. The alarm times configured in the PF2 are reflected in the trend display, generating Alarm points when the set threshold is crossed. This assists in identifying patterns and frequencies of events that lead to alarms or shutdowns.

Power Events

Displays time and date when the unit was powered down or lost power. Ability to track power losses can help with troubleshooting power issues with the device or in the facility.

Oil Consumption

Time to date oil consumption based on Divider Block parameters and cycle time. Graph display window allows users to zoom into desired time frame to display targeted time frame for oil consumption.

Summary

Summary window captures total run time of Proflo® PF2 device and duration of log information that has been captured.

Device Settings

Configuration and Statistics tab displays Proflo® PF2 settings and input information that is used to produce graph data. These settings can be extracted through Modbus as well.



**Proflo PF2 Analyzer
Program Link:**

[CLICK HERE](https://files.chartindustries.com/pf2AnalyzerSetup.zip)

<https://files.chartindustries.com/pf2AnalyzerSetup.zip>



Proflo® PF2 Connect

Mobile App

What is Proflo® PF2 Analyzer?

Proflo® PF2 Connect is a mobile app that provides PF2 device users the ability to connect with all their PF2 devices in order to download & maintain device data, update device firmware, and manage their device IDs.

FEATURES



Download & Share data logs from PF2.



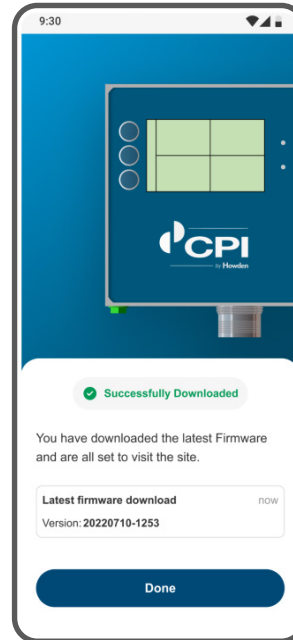
Update PF2 device to latest firmware.



Create & manage device IDs.



Erase data logs to free up space on PF2.



Where to get the app?

Proflo® PF2 Connect mobile app is available for Android and iOS devices. Downloadable for FREE in Apple Store and Google Play store.

