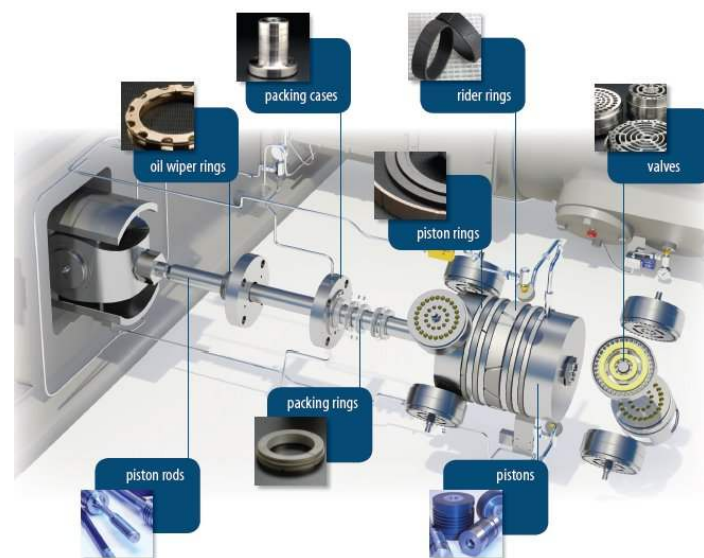




New CPI Proflo[®] PF2 Gas Machinery Conference – January 2025

David Schroeder – Director of Engineering



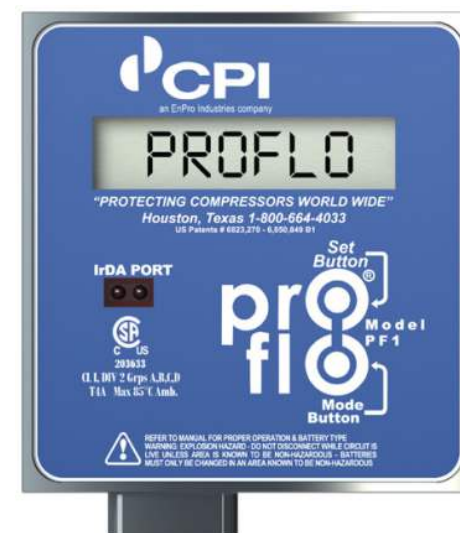
www.chartindustries.com
www.cpicompression.com

CPI Lubrication Product Line

Design and manufacture of a full line of compressor lubrication components, shutdown devices, and consoles



CPI Proflo® PF1



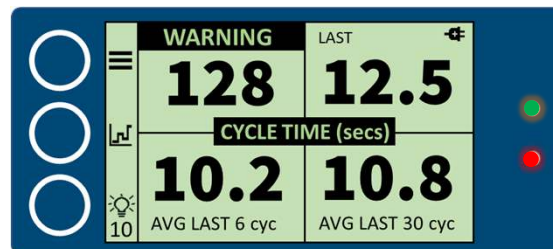
Introducing the New Proflo® PF2



New CPI Proflo® PF2 - Improvements

Large LCD Screen & LED Lights

- Larger LCD screen than PF1 and DNFT-PRG
- Displays Current, Last, Average of last 6 and Average of last 30
- Bright LED Lights added for quick status indication
- Screen Backlight is configurable to optimize battery life



- ← LED Indication Lights:
- Status
 - Warning
 - Alarm

Hazardous Location Certified



Certification	Location
ETL*	North America
CE / ATEX	European Union
IECEX	International
UKEX	United Kingdom

* ETL is CSA / UL equivalent

Class I refers to flammable gases or vapors that are or may be present in the atmosphere

Zone 0 refers to flammable gases or vapors that are present continuously

IIC refers to all gas types under Groups A and B, including acetylene, hydrogen, butadiene, propylene oxide and manufactured gases containing more than 30% hydrogen by volume

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

Class I, Division 1, Groups A, B, C and D, T4
Class I, Zone 0, AEx ia [ia] IIC T4 Ga

II 1 (1) G Ex ia [ia] IIC T4 Ga

Ex ia [ia] IIC T4 Ga



New CPI Proflo® PF2 - Improvements

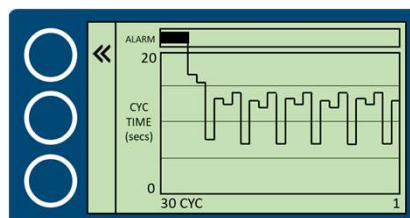
Wireless & Modbus Communication

- Wireless communication for data downloads and device software updates
- Modbus communications to control device settings and transfer operational data
- FREE App for IOS and Android phones



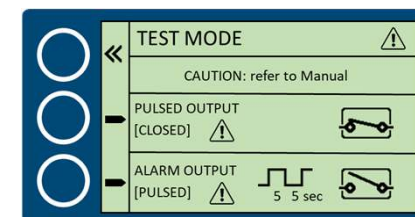
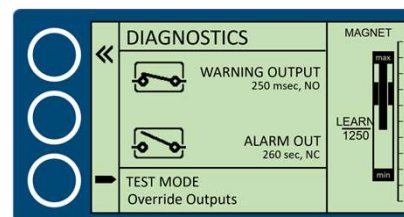
Visual Trend Graph

- Graph displays last 30 cycle times
- Visual cycle pattern
- Shows natural behavior of divider block cycles
- Prevents incorrect adjustments by the user from misunderstanding of divider block pattern



Diagnostics and Test Mode

- On-board diagnostics tools and test mode help to troubleshoot installation and operation problems in real time
- Test mode allows to manually activate output relays, confirm wiring, and test signal connections



Quick-Disconnect Cable Connection

- Safe and quick disconnect of PF2 device when replacing or moving
- No wire cutting in Hazardous Location to remove device
- Wires identified to simplify the installation and prevent wiring mistakes
- All inputs, outputs and power utilize single connection cable



New CPI Proflo® PF2 - Improvements

Power Supply

- Each unit now features battery and 9V to 27V DC (24V nominal) power input
- Replaceable battery features a robust connection for fail-safe operation and ease of replacement



Magnet Assembly

- Improved design for longer life
- Stronger spring and magnet
- Robust pin design with machined flat for oil relief

OLD



NEW

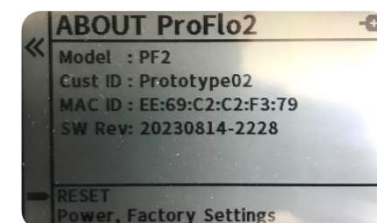


Programmable Alarm Output

- Program alarm time from 5 sec to 300 sec (5-min)
- PF1 program time was 30 sec to 240 sec (4-min)

Device Identification

- Each device is serialized
- User defined Customer ID number to manage multiple devices at the site
 - 40 digits for ID
 - Configurable through Modbus or Mobile APP only



Second (Configurable) Output Circuit

- Can be used for Proximity Switch to track each cycle of the divider block
- or-
- Can be used as a Warning Output, selected as NO or NC

Data Storage

- Stores approximately 1 year of data
 - New data overwrites old data when capacity is exceeded
- Stored Data: Short-term (current, last), Long-term (Avg of 6 and Avg of 30), Total Run Time, and Power Cycles

Proflo® PF2 - Communication



Mobile App

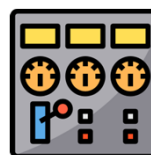
- Download Data
- Software Update
- Share Data
- Customize Unit ID



PC App

Read Downloaded Data

- Divider Block Total
- Cycle Time
- Total Run Time
- Total Cycles
- Alarm Time
- Total Oil Consumption
- Graphical Representation



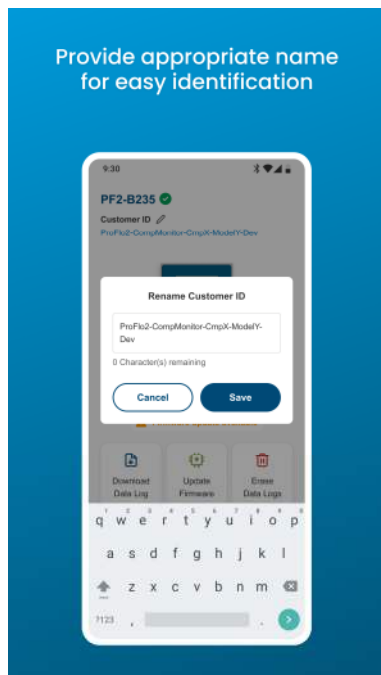
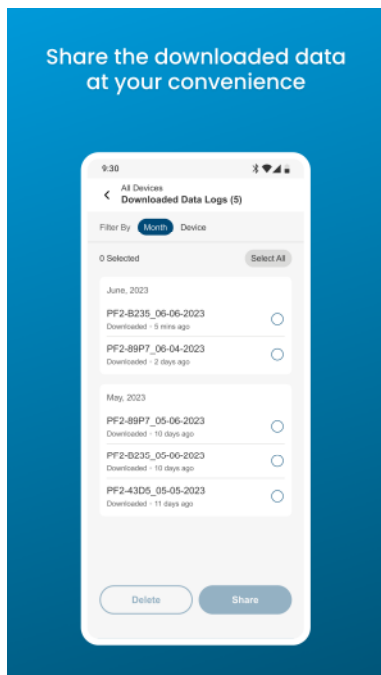
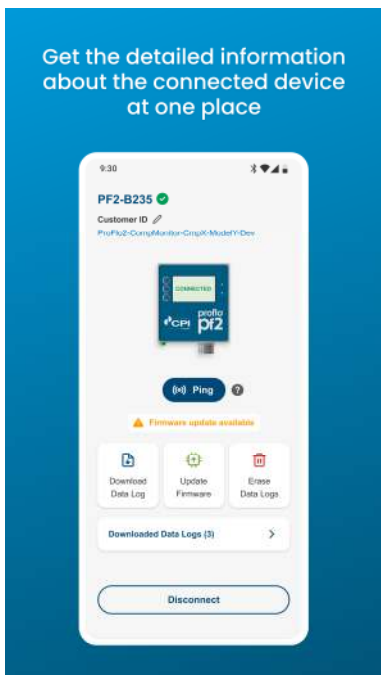
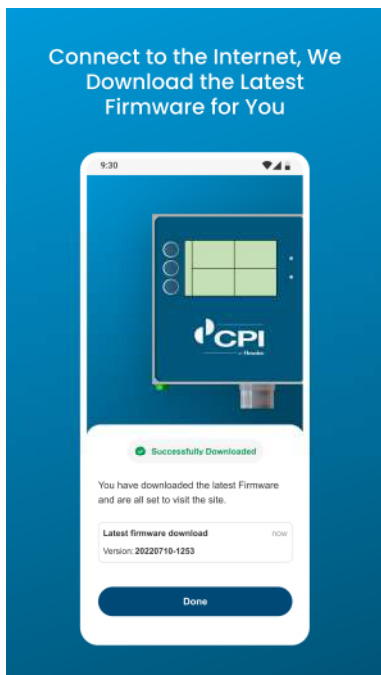
Modbus / PLC Controls

- Change PF2 Settings
- View Active Data

Proflo® PF2 - Mobile Device APP

Features

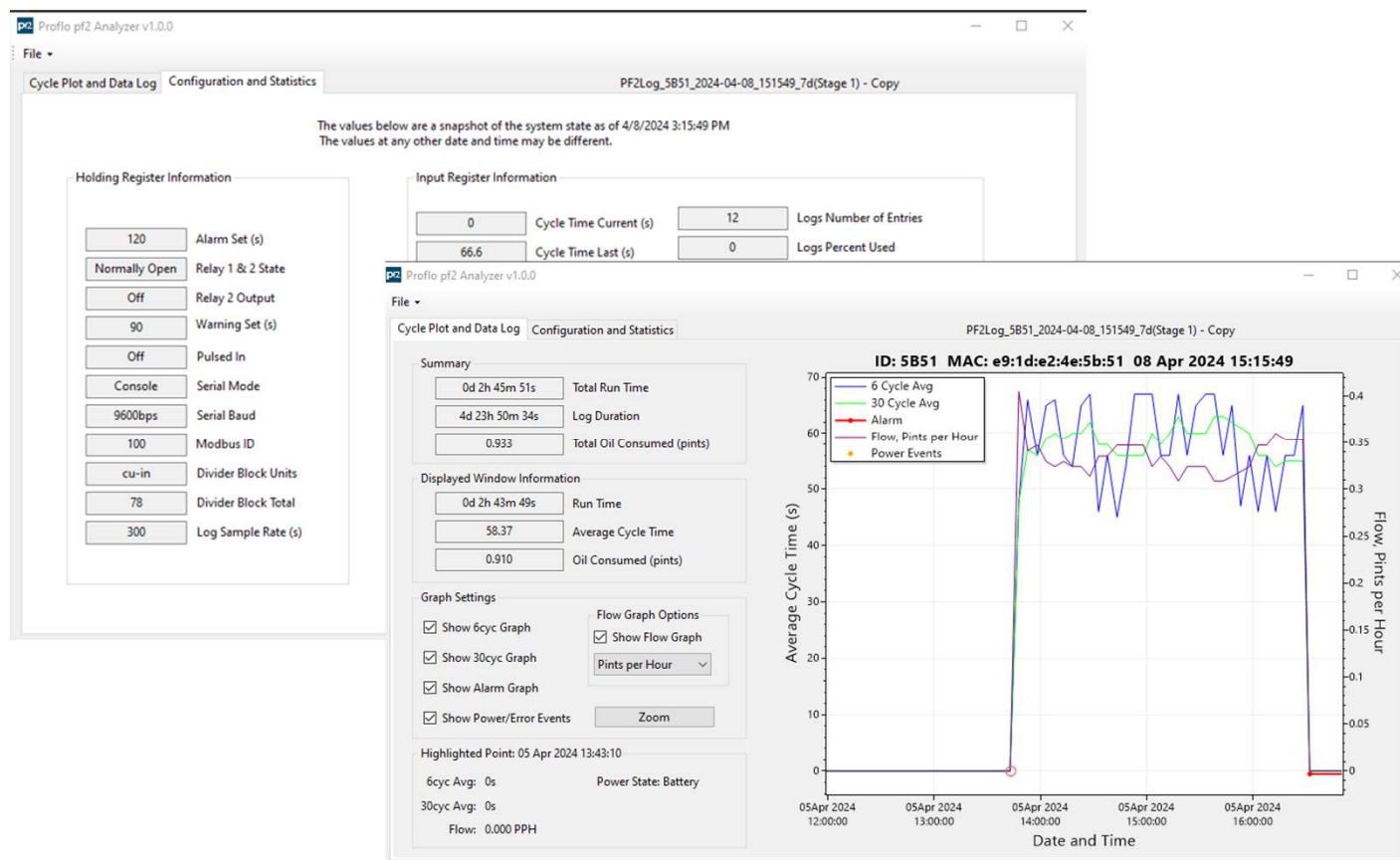
- Android or IOS
- Download data
- Upload software updates
- Manage multiple PF2 devices



Proflo® PF2 - Mobile Device and PC APP

View downloadable data

- Divider block total
- Cycle time
- Total run time
- Total cycles
- Alarm time
- Total oil consumption
- Graphical data



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