Flow Management Devices, LLC

"In pursuit of improving liquid and gas measurement technology"



Unidirectional Captive Displacement Provers

Prover Features Include:

- Industry standard double chronometry per API 4.6
- Conforms to API 4.2 "Displacement Provers"
- Equal upstream and downstream displaced volumes
- Stainless Steel and PTFE material used on all liquid contacting surfaces
- Galvanized frame per ASTM B633 SC4
- Shock mounted isolation pads provides independent drive end support
- Three point installation for secure mounting on uneven surfaces
- 2" flanges allow rapid draining
- 2" vents with check thermo well and pressure verification ports
- Ability to point drain valves in multiple clocked directions
- Tool-less access to most common serviceable components
- Prover Interface Module with advanced Features

Prover Optional Features Include:

- 316 stainless steel structural components
- Trailer and truck mount
- Many options available for portable units
- Service drip pans for all environmentally critical areas
- Nitrogen purged for Cryogenic applications
- Drain Valves
- Selection of Pressure Sensors
- Selection of Temperature Sensors
- Gas Detection Sensors
- Vertically mounted units

Advantages

Simple to Operate

No Hydraulics

No Complicated Release Mechanism Patent pending Prover validation Includes Data Acquisition software

Two year warranty

Applications

Portable

Stationary

Truck Load rack proving

Offshore

Cryogenic

Test Laboratories

Industries

Pipelines

Refineries

Load racks

Calibration Laboratories

Chemical Processing

Pharmaceuticals





Technological leader in Unidirectional Captive Displacement Provers





Superior design
Functionality
Flexibility
Ease of installation
Ease of operation
Excellent customer service

Features Include

- Low Power (3 Watts nominal)
- Input power from 11 to 26 Volt Power Supply)
- Status code display with red and green LED's
- Fully configurable variable, including time factors using PC via serial port or local keyboard
- Direct reading for configured volume(s) with timing displayed in seconds or microseconds
- Four status / diagnostic outputs to host flow computer
- Prover cycle counter with programmable limits provide preventative maintenance planning
- Timer provides accurate elapsed time between optical switches
- Intrinsic safe design
- Loop-Back signal verification of volume output pulses on host flow computer
- 25 MHz processor with;
 - 2 serial ports
 - Counters
 - 64KB flash memory
 - 32KB external memory with 10 year expected life battery back-up
- Communication Ports:
- RS-232 and RS-485
- Local and or Remote display with Keyboard entry via RS-232 or RS-485
 - Built in Water Draw Mode
 - Adjustable motor power off delay
 - Adjustable pulse input and output signal level for flow computer adaptability
 - Compatible with other Provers







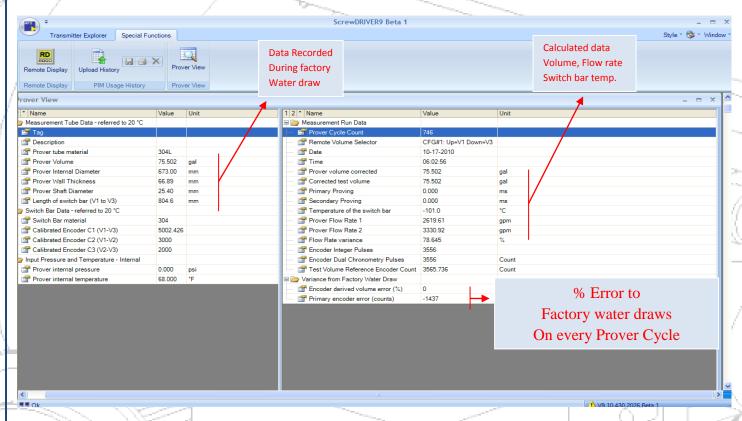


Prover Validation and Self Test function

Patent Pending



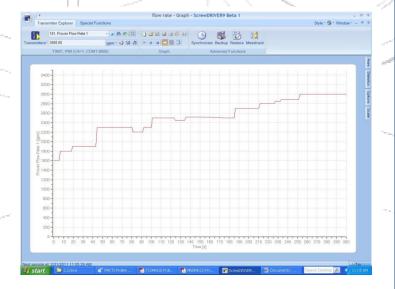
Prover Control Software (PCS)



Virtual display for remote access

Flow Management Devices LLC Virtual Display Fig. 9, 938 ms. P2 9, 938 ms. Ls. OK ST Lasinch

Flow rate graphs



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-	FMD Prover Model Numbers					
	MODEL NUMBER	MAX FLOW RATE GALONS/MIN	MAX FLOW RATE BARRELS/HR	MAX FLOW RATE METERS³/HR	DISPLACED VOLUME GALLONS	FLANGE SIZE (STANDARD)*
	FMD-003	300	428	68	2	2"
	FMD-007	700	1000	150	5	3"
[FMD-015	1,500	2,100	330	10	4"
	FMD-025	2,500	3,570	560	20	6"
	FMD-035	3,500	5,000	790	25	6"
	FMD-060	6,000	8,500	1,350	40	10"
	FMD-090	9,000	12,850	2,000	75	12"
	FMD-130	13,000	18,500	2,900	90	16"
	FMD-200	20,000	28,500	4,500	140	20"

