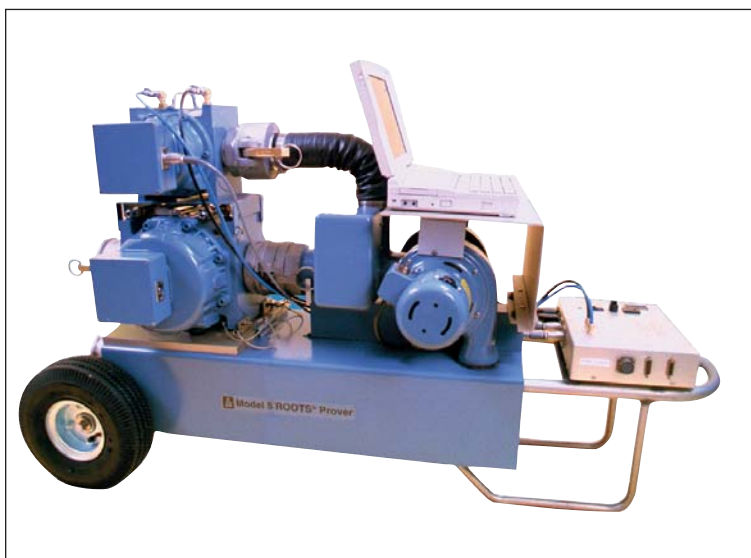


ROOTS® Proving System

Model 5 2M/10M



The Model 5 portable transfer prover is an integrated computer controlled system for verification and testing of rotary, turbine and diaphragm gas meters.

The prover system consists of one or two Master Meter(s) for flow measurement reference, a Controller, and a Windows®-based Computer Software Package for calculations and presentation of the flow, pressure and temperature transducers for data and test results. The prover has provisions to test ROOTS® Meters equipped with integral electronic correctors.

A laptop or personal computer (not provided) is needed to run the prover software.

The Prover Software performs a number of functions such as:

- Stores an unlimited number of predetermined field meter test configurations.
- Performs all calculations at the end of each test run to determine field meter accuracy, and generate test reports.
- Verifies that all temperature & pressure transducers are properly connected and are yielding reasonable values.
- Provides a password protected set-up screen which guides the technician through calibration of the system.
- Extensive help screens are stored in the prover software for operator assistance.

Model 5 Prover Innovations

- Test flow rate is automatically controlled by varying blower speed and automatic valve control
- Automatically controls the start and stop of the tests
- Computer software can be used on either a laptop or a desktop computer. It offers user-friendly menu prompts to guide the operator through each step of the field meter test procedure
- Lower blower speed requirement reduces noise level
- Prover software accepts input from a bar code reader
- Network compatible for sharing data and printers

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Specifications (excludes computer)

Accuracy:		+/- 0.55%
Repeatability:		+/- 0.15%
Ambient Operating Temperature:	Master Meter:	+32° to +140°F 0° to +60°C
	Controller, etc.:	-4° to +140°F -20° to +60°C
Ambient Storage Temperature:	Master Meter:	-40° to +140°F -40° to +60°C
	Controller, etc.:	-40° to +185°F -40° to +85°C
Humidity:		Up to 95% non-condensing
AC Power:	Blower:	120 or 240 volts ± 15%, 48 to 62 hertz
	Electronics:	120 or 240 volts ± 15%, 48 to 62 hertz
Blower Capacity:	Single:	0 to 7,200 ACFH at 10 inch differential 0 to 200 m ³ /h at 25 millibar differential
Blower Capacity:	Dual:	0 to 14,400 ACFH at 10 inch differential 0 to 400 m ³ /h at 25 millibar differential
Compliance:		Meets FCC Part-15 requirements NMI and NIST Traceable
Test Medium:		Air
Test Flow Rate:	10M Master Meter:	100 to 10,000 ACFH 2.83 to 283 m ³ /h
	2M Master Meter:	35 to 2,300 ACFH 1 to 65.1 m ³ /h
Safety Rating:		Complies with Underwriters Laboratory Requirements
Inverter Capacity Required:		2000 watts continuous
Net Weight:	10M only	143 lbs.
	2M/10M	173 lbs.
	Hose Carton*	50 lbs
Shipping Weight:	10M only	198 lbs.
	2M/10M	228 lbs.
	Hose Carton	60 lbs.
Overall Prover Dimensions (l x w x h):	51" x 19.5" x 29.5"	
Prover Shipping Dimensions (l x w x h):	54" x 24" x 32"	
Hose Carton Shipping Dimensions (l x w x h):	41" x 22" x 35"	

*Hose Carton contains prover Hose and Tool Kit

Minimum Computer System Requirements:

- Microsoft Windows® (100% IBM Compatible) - version 95 or greater
- Pentium 400Mhz processor with 128 Megabytes of RAM
- 1.44 MB floppy disk and CD drive
- 1 RS-232 serial port
- 1 Parallel port for printer operation

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