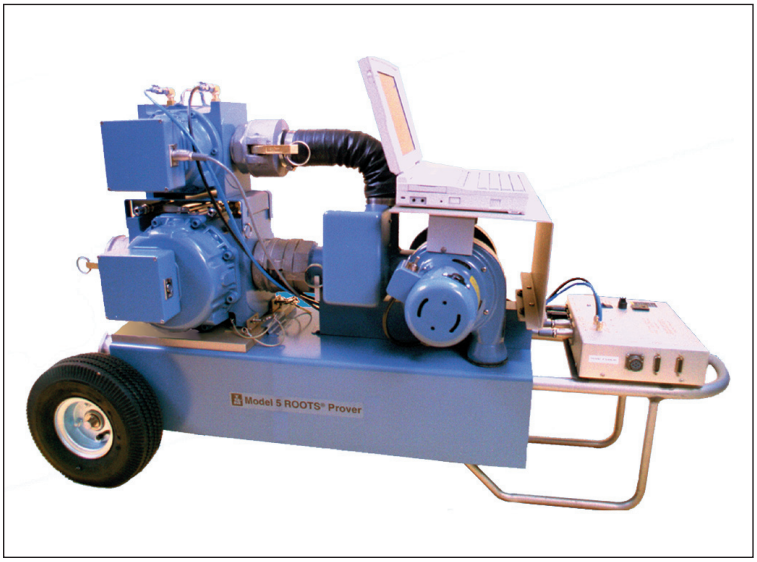
DRESSER

ROOTS Meters & Instruments

TECH SPECS

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

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

The Prover Software performs the smart functions of the system as follows:

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

Model 5 Prover Innovations

- Test air flow rate is automatically controlled by varying blower speed and automatic valve control
- Automatically controls the start and stop of the test run
- 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: Electronics:	120 or 240 volts ± 15%, 48 to 62 hertz 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® 95 or Windows® 98 Me, Windows NT® 4.0
- Pentium 200Mhz processor with 32 Megabytes of RAM
- 256 color video with 800 x 600 capability
- 100 MB of free Hard Disk space

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