

Dresser Proving System



Model 5 2M/10M

The Dresser Natural Gas Solutions (NGS) 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 data and test results. The prover has provisions to test Dresser Meters equipped with integral IMC-W2 correctors.

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

The Windows® Prover Software performs a number of functions, such as:

- Stores an unlimited number of predetermined 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 and 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.
- Includes extensive help screens in the prover software for operator assistance.

Model 5 Prover Innovations

- Test flow rate is automatically controlled by varying blower speed and valve control.
- Automatic controls start and stop 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.



Specifications (excludes computer)

Accuracy		+/- 0.55%	
Repeatability		+/- 0.15%	
Ambient Operating Temperature	Master Meter	+32° to +140°F 0° to +60°C	
	Controller, etc.	+36° to +104°F +2° to +40°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	Dual	0 to 10,000 ACFH at 6 inch differential	
		0 to 280 m ³ /h at 15 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	
Inverter Capacity Required		2000 watts continuous	
Net Weight	10M only		143 lbs
	2M/10M		173 lbs.
	Hose		50 lbs
Shipping Weight	10M only		258 lbs.
	2M/10M		288 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"	
Minimum Computer System Requirements	<ul style="list-style-type: none"> • RS232 port (USB to serial adapters) = 1 for prover. (Note: Smartprove interface for Microcorrectors will require additional RS232 connection) • Processor = Pentium 4/M or equivalent • RAM = 1 GB • Screen Resolution = 1024 x 768 pixels • Operating System = Windows XP Pro SP3 (32-bit) or Windows 7 Pro (32- and 64-bit) • Disk Space = 1 GB • CD Drive • Parallel port for printer operation 		

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