

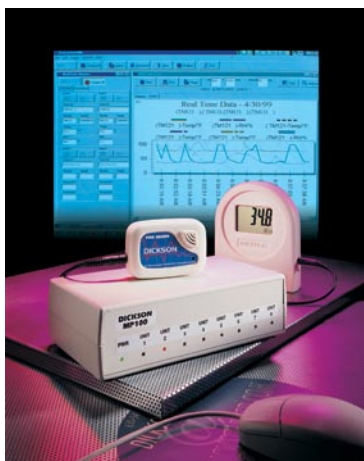
**DICKSON**

# MP100

## Operation Manual

### Contents:

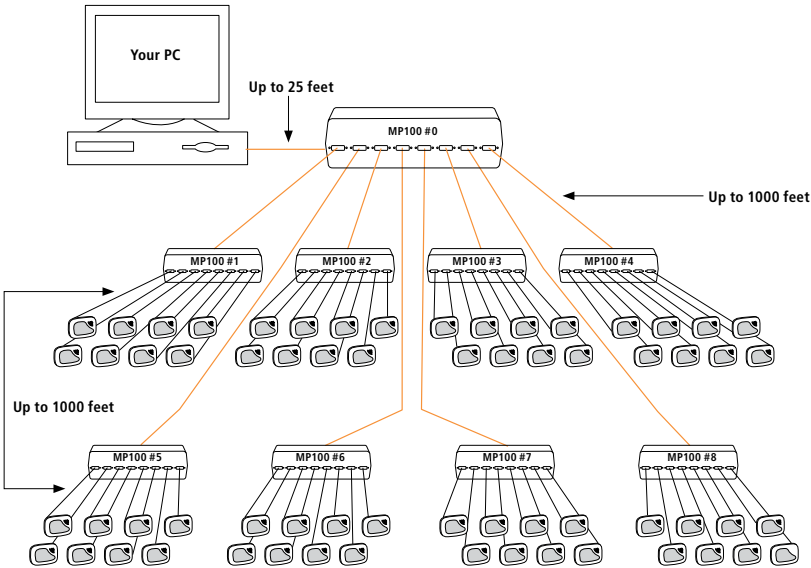
Product Applications  
 Product Specifications  
 Instrument Anatomy  
 Dip Switch Setup & Getting Started  
 DicksonWare Software Specifications  
 Product Accessories  
 Troubleshooting  
 Warranty / Factory Service & Returns  
 Order Form



# Product Applications

The MP100 creates a NETWORK of Monitoring Instruments.

- Display Loggers (SM101, SM150, SM175, TM121, TM125)
- Data Loggers (SX100, TX120, SP100, SP150, TP120, SR300, TR320, ES120, EV100, PS100)
- High Temperature Loggers (HT100, HT120, HT125)
- You won't have to leave your desk to monitor conditions
- You won't have to leave your desk to download data
- You won't have to leave your desk to share data with others
- Provides real-time monitoring of all instruments on the network
- DicksonWare™'s point and click feature selects loggers to view, graph or download
- One MP100 connects 8 instruments to one PC up to 1000' away
- Connecting 9 MP100's together creates a network of 64 instruments
- Each instrument can be placed up to 1000' away from the MP100



# Product Specifications



- Ambient Operating Range:** 32 to +122°F (0 to +50°C) 0 to 95% RH (non-condensing)
- Dimensions:** 4.26" x 8.08" x 2.25"
- Power Status Indicator:** LED
- Power Supply:** 120V AC adapter (9V battery back-up)
- Software Requirements:** Windows® 95, 98, 2000, NT & XP compatible
- Weight:** 1 lb. 3 oz. (adapter not included)
- Includes:** AC adapter, 25' extension cable and instruction manual

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Product  
Applications

Product  
Specifications

Instrument  
Anatomy

Dip Switch  
Setup &  
Getting Started

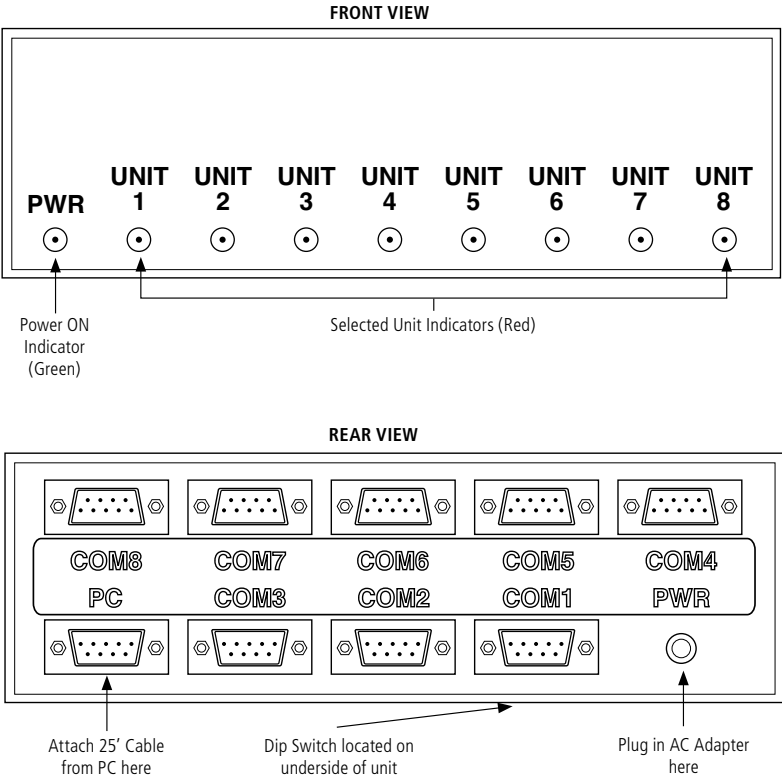
DicksonWare  
Software  
Specifications

Accessories &  
Troubleshooting

Warranty/  
Factory Service  
& Returns

Order Form

# Instrument Anatomy



<b>DICKSON</b>	Product Applications	Product Specifications	Instrument Anatomy	Dip Switch Setup & Getting Started	DicksonWare Software Specifications	Accessories & Troubleshooting	Warranty/Factory Service & Returns	Order Form
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# Dip Switch Set-up

Dip switches are located underneath the unit. Use a pen or small screw driver to flip the switches.

## DIP SWITCH #1:

ON: MP100 #0. MP100 connected directly to PC.

OFF: MP100 #1 thru MP100 #8.

When an MP100 is connected to another MP100.

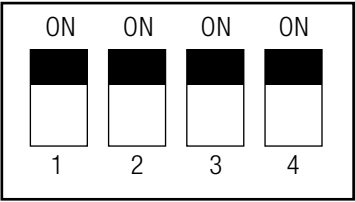
DIP SWITCH #2 must be in the ON position.

DIP SWITCH #3 must be in the ON position.

DIP SWITCH #4 must be in the ON position.

**NOTE:** Dip switch settings are only updated when the unit is turned on.

Slide toggle to this side for ON



Slide toggle to this side for OFF  
(all switches are shown in ON position)

## Getting Started

The MP100 Multipoint Monitor, along with DicksonWare, allows you to monitor multiple instruments simultaneously from one PC. Select Loggers to view, graph, or download. One MP100 connects 8 units to one PC up to 1000' away. Connecting 9 MP100 's together creates a network of 64 units.(Refer to Connection Diagram.)

### Power

Attach the plug end of the AC adapter to POWER jack in the rear of the unit. Verify that the GREEN indicator is lit.

### Cables

The MP100 comes with a 25-foot cable to connect the MP100 to your PC. This distance, 25 feet, is the maximum distance allowable for reliable operation. To connect from the MP100 to Data Loggers, a download cable is required. This download cable is included with the extension cable accessories and the software. Simply connect the phone plug end of the download cable into the Logger and connect the other end to the MP100.

For greater distances, up to 1000 feet, extension cables may be inserted between the MP100 and the download cable. To connect one MP100 to another MP100, extension cables may be used for distances up to 1000 feet.

### Set Up

To set-up the MP100 for your specific application, you might need to change one of the Dip Switches. The Dip Switches are located underneath the unit. Refer to Dip Switch Set-Up.

DICKSON

Product  
Applications

Product  
Specifications

Instrument  
Anatomy

Dip Switch  
Setup &  
Getting Started

DicksonWare  
Software  
Specifications

Accessories &  
Troubleshooting

Warranty/  
Factory Service  
& Returns

Order Form

# DicksonWare™ Software Specifications

- Microsoft Windows® compatible
- Allows for simple viewing and zooming of logged data
- Easy set-up of Dickson Data Loggers including:
  - User selectable sample intervals from 10 seconds to 24 hours
  - Display temperature in °C or °F
  - Delayed logger start times
  - Logger data capacity can be set to wrap data or stop when full
  - Allow for real time monitoring and graphing.
  - Effortless exporting of data and graphs to other software
  - Data can be viewed in tabular (numeric/table) or graphical formats
  - Fast downloading of logged data - 30 seconds (typical) from full logger
  - Even shows battery power status for battery operated loggers

## Specifications:

**Compatible With:** Microsoft Windows® 95, 98, 2000, NT & XP

**PC Requirements:** PC with 386 MHz or better microprocessor, 4 M RAM, 1 free COM (serial) port, CD drive

**Cable Type/Length:** 9 pin male D-shell to male 2.5mm stereo plug, 6' long

**Computer Interface:** RS-232 COM (serial) port

**DicksonWare™ Version Required (minimum):** See Specific Model for Version Requirement

# DicksonWare™ SECURE Software Specifications

To ensure the authenticity, integrity and confidentiality of data, 21CFR Part 11 requires that electronic records adhere to certain criteria. DicksonWare™ SECURE software collects data from our validated data logger, creates detailed graphs and reports and contains the following features that comply with 21CFR11:

- Password protection
- Electronic signature consisting of User ID and Password
- Collected data encrypted in secure files
- Audit trail capability to identify date, time, user and action

## For a complete 21CFR11 compliant package, order the following:

Description	Order #
1. Appropriate Validated data logger	
2. DicksonWare™ SECURE Software & Serial Download Cable	A025
3. Certificate of Validation/logger	N520
4. Choose One Calibration Option Listed Below:	
NIST Traceable Calibration 3-pt. (new unit)	N300
NIST Traceable Calibration 1-pt. (new unit)	N100
A2LA Accredited Calibration 3-pt. (new unit)	N400

Note: SW400 Calibration Software may not be used with DicksonWare™ SECURE software.

Prices are subject to change without notification.

## Specifications:

**Compatible With:** Windows® 95, 98, 2000, NT & XP

**PC Requirements:** 386MHz processor or higher, 4MB RAM, 1 free COM (serial) port, CD drive

**Cable Type/Length:** 9 pin male D-shell to male 2.5mm stereo plug, 6" long

**Operating Range:** -20 to +135°F, 0 to 95%RH (non-condensing)

**Computer Interface:** RS-232 COM (serial port)

DICKSON

Product Applications

Product Specifications

Instrument Anatomy

Dip Switch Setup & Getting Started

DicksonWare Software Specifications

Accessories & Troubleshooting

Warranty/ Factory Service & Returns

Order Form

Software	Order #
DicksonWare™ Software and Serial Download Cable	A015
DicksonWare™ SECURE Software and Serial Download Cable	A025

Cables	
1000' Extension Cable (for connecting logger to MP100)	X999
100' Extension Cable (for connecting logger to MP100)	X100
50' Extension Cable (for connecting logger to MP100)	X050
25' Extension Cable (for connecting logger to MP100)	X025
Additional Connector Kit Assembly	X009
Extra 6' Serial Download Cable	A060

NOTE: Cables can be connected together to increase distance

## Troubleshooting

Symptom	Cause	Check/Remedy
No PWR Indicator Power	No AC Power	Plug in AC Adapter; Verify AC
MP100 #0 not detected	Dip Switch settings incorrect No communications with PC	Verify Dip Switch settings Refer to DicksonWare™ Help
Units are not Selected	Dip Switch settings are incorrect Incorrect DicksonWare™ operation Logger does not work	Verify Dip Switch Settings Refer to DicksonWare™ help Refer to Logger manual

# Warranty

Dickson warrants that the products it sells will be free from defects in material and workmanship under normal use and service for a period of twelve months after delivery. In the event of a claim under this warranty, the product or part must be returned to the factory for repair or replacement (shipping pre-paid) with a Return Authorization Number (see Return Information above). It will be repaired at Dickson's option without charge. This warranty DOES NOT cover routine calibration, pen, chart and battery replacement. The foregoing warranty and remedy are exclusive and in lieu of all other warranties either expressed or implied. Dickson shall not be liable for consequential or incidental damages resulting from failure or malfunction of its products. Dickson makes no warranty for products not manufactured by it or for any products modified by buyer, or subject to misuse or neglect.

## Factory Service & Returns

Contact the factory (630-543-3747) for a Return Authorization (RA) Number before returning any instrument. The model number, serial number and a purchase order number will be requested before an RA number is issued.

- Carefully repack the instrument, label the outside of the box with the RA# and return the instrument (freight pre-paid) to Dickson.
- All instruments that do not have the RA# clearly marked on the outside of the box will be refused. When returning instruments for credit, please include all accessories in shipment.
- Calibration/Freight charges are non-refundable.

NOTE: Dickson shall not be liable for consequential or incidental damages resulting from failure or malfunction of its products.

### Customer Satisfaction

Dickson takes pride in providing you, the customer, with the highest quality instrumentation. We welcome the opportunity to help you in any way possible. Whether it be a question or a new idea in documentation, the Dickson Company would like to hear your response. Please call our Customer Service Department at 1-800-323-2448 or (630) 543-3747 (in Illinois).

### Software Return Policy

IMPORTANT-Read your Software License Agreement carefully before installing software. Dickson will accept returns for replacement of defective disks and CDs only.

## DICKSON

930 South Westwood Avenue  
Addison, Illinois 60101

Phone: (630) 543-3747 • E-mail: DicksonCSR@dicksonweb.com

DICKSON

Product  
Applications

Product  
Specifications

Instrument  
Anatomy

Dip Switch  
Setup &  
Getting Started

DicksonWare  
Software  
Specifications

Accessories &  
Troubleshooting

Warranty/  
Factory Service  
& Returns

Order Form



Step 1 - Bill To:

Name  
Company  
Address  
City  
State Zip  
Phone ( ) -  
Email




Step 2 - Ship To (if different than above)

Name  
Company  
Address  
City  
State Zip  
Phone ( ) -  
Email

Step 3 - Ordering Information

Order #	Quantity	Price/Unit	Total
		\$ /each	\$
		\$ /each	\$
		\$ /each	\$
		\$ /each	\$
		Subtotal:	\$
	In Illinois, add 7.5% sales tax ▶	Tax:	\$
		Freight:	\$
	All Prices in U.S. Dollars ▶	Total:	\$

Step 4 - Payment Method

☐ Check: Check # \_\_\_\_\_  
☐ Money Order  
☐ Credit Card:  ☐  ☐   
Credit Card Number: \_\_\_\_\_ Expires: (mm/yy) \_\_\_\_\_  
\_\_\_\_\_  
Signature  
☐ Purchase Order: P.O.# \_\_\_\_\_ (Net 15 days for established customers)  
Customer #: \_\_\_\_\_

U.S.A. Freight Charges

Total Order	UPS 2nd Day	UPS Next Day	UPS Ground
\$0-100	\$19	\$39	\$12
\$101-400	\$24	\$50	\$18
\$401-700	\$33	\$66	\$21
\$701-1,000	\$43	\$70	\$30
\$1,001-1,500	\$64	\$89	\$45
\$1,501-2,000	\$84	\$111	\$53
\$2,001-over Please call Dickson Customer Service			

All shipments UPS 2nd day unless otherwise requested.