FlexPort FP-1M Quick Start Guide

Congratulations on choosing the FlexPort Gage Interface from Midwest FlexSystems, Inc.

The FlexPort Gage Interface units (FP-1M) is designed for interfacing measuring instruments with Mitutoyo Digimatic output to a computer that is equipped with an RS-232 (EIA-232-D) communication interface (serial port).

No setup is required. The FlexPort FP-1M interface will work right out of the box with no DIP switches to set or software to run. Simply connect your measuring device and collect data immediately.

Default Configuration:

Gage input:	Mitutoyo compatible device
Data send:	Footswitch input
	Data send button
	Flashing LED for data send
	Host commands
Output:	Standard RS232 output (9600,N, 8,1)
	- 9600 baud, no parity, 8 data bits, 1 stop bit
Power:	Powered from serial port or optional power supply

Unit is shipped with data transfer cable to connect to DB9 serial port. Power supply and DB25 cables available upon request.

Standard RS232 Output Format: Full output format: 26 characters

Character position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Data String	#	#	#	#	,	#	#	#	#	#	#	#	#	#	#	,	-	-	-	-	-	,	#	#	**CR**	**LF**
Field name	Count					Reading											Mode						ID			

Count - Sequential counter for number of readings sent.
Reading - Measurement data captured from device and sent to PC.
Mode - Displays the setup options that are activated.
ID - Identifies from which input this reading originated.
CR/LF - Line termination for output.
(,) - Comma delimited fields for easy data parsing
Polarity - Negative numbers are preceded by a '-' sign in reading field.

Host command:

Action	***Command***	***Response***
Read an input	R<*CR*>	Will return gage reading on port

Digimatic Code Connector Pin Assignments:

Pin	***Name***	***Description***
1	GND	Reference ground
2	Data	Data
3	Clock	Clock
4	Ready	Data ready
5	Request	Request for data
9	Optional 5v output	Optional 5v output to gage/cable
10	GND	Reference ground
6, 7, 8	NC	No connection

RS-232 (DB9F) (EIA-232-D) Output Pin Assignments

Pin Number	***Signal Name***
2	RxD
3	TxD
5	Ground