

FlexPort FP-M29 Quick Start Guide

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

The FlexPort Gage Interface unit (FP-M29) 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-M29 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:	Accepts host commands for reading Gage send button
	Output:	Standard RS232 output (9600,N, 8,1) - 9600 baud, no parity, 8 data bits, 1 stop bit
	Power:	Powered from serial port

Just plug in the FlexPort Gage adapter to the DB9 serial port on your computer and start collecting data. Using the send button on the gage or gage cable, you can start collecting data on your PC immediately.

Standard RS232 Output Format: Reading Only output format: 12 characters

Character position	1	2	3	4	5	6	7	8	9	10	11	12
Data String	#	#	#	#	#	#	#	#	#	#	CR	LF
Field name	Reading											

Reading	- Measurement data captured from device and sent to PC.
CR/LF	- Line termination for output.
Polarity	- Negative numbers are preceded by a '-' sign in reading field.

Host command:

Action	Command	Response
Read an input	R	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