FlexWedge™
(FW2-1M-USB)

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

The FlexWedge USB Gage Interface (FW2-1M-USB) is designed for interfacing (convert and connect) most measuring instruments to a computer via USB port.

The FlexWedge is a multi-function interface that includes both HID (keyboard emulation) and VCP (Virtual ComPort emulation).

HID – Keyboard Emulation
No setup is required. The FlexWedge USB works right out of the box. Connect the FlexWedge directly to any USB port on the computer and collect data immediately. The PC will see the FlexWedge as an additional keyboard and immediately allow readings to be entered into any program. Gage readings appear as if they were typed on the keyboard numeric pad. Now readings are displayed just like you typed them...no data errors!

VCP – Virtual Com Port Emulation
Load the driver (included) for the FlexWedge USB to access advanced features as well as capture data from a Virtual ComPort (VCP). The computer will treat the FlexWedge like a serial port - just like previous DB9 or DB25 serial ports. The FlexWedge USB will send data that can be captured by any software you choose. Most SPC software have a driver for the standard format used by all Midwest FlexSystem products.

Defaults

Gage Input:	Standard 10-pin, Mitutoyo compatible device
Data send:	Data send switch input, 2.5mm jack Data send button Send button on gage or cable Flashing LED signals data send completed
Output:	HID mode. Readings appear as if typed on keyboard, followed by a carriage return/line feed <CR><LF>. (This is configurable.)
Power:	Low power draw allows USB port or computer to supply power.

Standard Output

Full output format: 10 characters, including spaces

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

Reading: Measurement data captured from device and sent to computer.

Termination: Line termination for output. Moves cursor DOWN to the next row.

Polarity: Negative numbers are preceded by a '-' sign in reading field.

CD Installation

The FlexWedge USB comes with an installation CD that includes the driver for Virtual COMport setup and also the FlexTerm software to configure the FlexWedge. Midwest FlexTerm Terminal software allows for easy and intuitive setup of advanced features and functions of any Midwest FlexSystems serial product.

Just put in the installation CD and follow the prompts.

Advanced
(accessed via Midwest FlexTerm software)

Data Send: Individual, TIR, continuous

Output Format: Reading only, FlexPort standard

Output Type: HID, VCP, VCP/HID

Termination: CR, Tab, Date, Time

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