VW Sensor (VW Strain Gage . VW Piezomete . VW Load Cellr...)

6 Industrial I/O Modules

detected by a VW readout device, or called VW reader. After plucking, there is no other force acting on this wire. When the transient response dies out, the reader can read a stable resonant frequency. The resonant frequency is function of the tension of this wire.

4

I-87089W/S

DN-1618UB

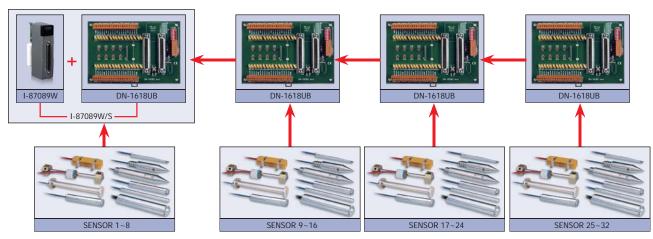
6.5. Vibrating Wire Input Modules

Applications _

Introduction _

The I-87089W/S can be extended to 32 channels by connecting 3 extra DN-1618UB.

I-87089W



The vibrating wire sensor has a wire which is initially plucked by a series of electrical magnetic forces from a coil. The conductive wire after plucking

is vibrating in a magnetic field. The wire will disturb the field, and then the coil can pick up the induced voltage change. The signal is amplified and

VW Input Module	
Models	I-87089W/S
Pictures	NEW
Vibrating Wire Input	
Channel	8
Input Type	Vibrating Wire Sensor (2 VW wire + 2 Temperature wire +1 shield wire)
Measurement Range	Wire: 450 ~ 6000 Hz
Excitation mode	Enhanced square wave
Resolution	Wire: 0.01Hz / Temperature: 0.01 °C
Accuracy	Wire: ±0.01 % of FSR / Temperature: ±0.1 % of FSR
Channel to channel isolation	Yes, 1 kV
System	
Dual Watchdog	Yes
Isolation	3000 Vpc
Power Consumption	3.6 W
Connector	D-Sub 37
Optional Accessories	DN-1618UB