



VW0420 shown mounted on a DIN Rail.



	<b>PRODUCT CATEGORY:</b>
	READOUTS + DATA LOGGERS

## VW0420 Vibrating Wire Isolated Analog Interface

The VW0420 provides an interface between vibrating wire instruments and factory automation systems which support 4-20 mA sensors. The vibrating wire section measures the natural frequency and temperature of the sensor. The measurements are then converted to engineering units, unit converted etc. as required, and scaled to the 4-20 mA outputs.

Set up of the device is straightforward, using a Windows host program connected via USB cable. Because the source of power, the vibrating wire sensor, and the 4-20 mA measurements which may be in different locations, there are 4 dielectrically isolated ground subsystems, one for the power, one for the sensor, and one for each of the outputs. This isolation gives maximum flexibility in connecting the system.



### SPECIFICATIONS

ITEM	DESCRIPTION	Contact RST for Details
Vibrating Wire Sensor Types	Piezometer, strain gauge, mini-strain gauge, displacement sensor etc.	
Sweep Types	A,B,C,D,E,F, user-defined	
Frequency Input	450-6000 hz	
Update Rate	2 seconds	
Vibrating Wire Calibration	mX+b, polynomial, units conversion, temperature compensation	
Thermistor Types	NTC 3000, 2252, 5k, 10k, 2k RTD	
Current Outputs (2)	Vibrating Wire, Thermistor	
Current Output	4-20 mA nominal, isolated between channels and with respect to sensor to 2500 VAC	
Vibrating Wire Conversion Base	Raw data, engineering units, temperature corrected	
Vibrating Wire Conversion Base Unit	B units, kPa, psi, mH2O, $\mu$ e, etc	
Temperature Conversion Base	$^{\circ}$ C, $^{\circ}$ F, ohms	
Current Resolution	0.002%	
Current Conversion Accuracy	0.02%	
Host Program PC Connection	USB 2.0, USB mini B connector	
Compatible Operating Systems	Windows 2000, XP, Vista	
Operating Temperature	-40 to 55 $^{\circ}$ C	
Power Supply	9-24 VDC, 8-35 mA, isolated to 1000 VAC	
Dimensions	3.55 x 3.62 x 0.89 in. (90 x 92x 22.5 mm)	

