



VW0420 shown mounted on a DIN Rail.



	PRODUCT CATEGORY:
	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, μ 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)	

