



MTN/8065 Signal Conditioning Unit

Tri-Output Vibration Interface Module

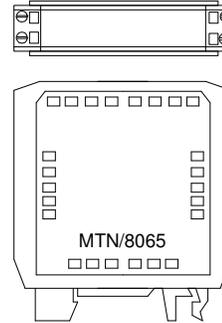
RMS velocity output (ISO 10816-1)

Enveloped g output

0-10V outputs for PLCs

Buffered acceleration output

DIN Rail Mounting



The MTN/8065 vibration module is designed to power and accept a signal from a constant current accelerometer. The module technically provides similar outputs to the MTN/1181, but it enables, where space is limited, a smaller accelerometer with 2-wire constant current method ie. MTN/1100, MTN/1830, MTN/1135 etc. to be used.

The module integrates and provides 0-10V output proportional to RMS velocity and enveloped g output and a buffered, unfiltered (Raw AC) output for connection to a data collector.

Technical Specification

Power Input	+24VDC at 15mA
Signal Input	From 100mV/g constant current accelerometer
Output 1	0-10 VDC proportional to RMS velocity Range 0-20mm/sec or as specified Output Offset 50mV DC max. (0.125 mm/s)
Frequency Range	10 Hz to 1 kHz (-3db) Filters - two-pole Butterworth type 12 dB/octave
Output 2	0-10 VDC proportional to Enveloped g Range 0-10g or as specified Output Offset 50mV DC max. (50mg)
Input Frequency Range	3 kHz – 6 kHz Enveloped Frequency range 10 Hz – 1 kHz Filters – two-pole Butterworth type 12 dB/octave
Output 3	AC output – 100mV/g or as specified Frequency Response 2 Hz – 10 kHz (-3dB)
Options	Other envelope filter bands available upon request

Construction

Din rail mounting enclosure

Dimensions

62mm x 65mm 22mm

Terminations

Screw terminals

Connections		
Terminal	"A"	Accelerometer Input 0V
Terminal	"B"	Accelerometer Input Signal
Terminal	"C"	AC Output (100 mV/g) Connection
Terminal	"D"	No Connection
Terminal	"E"	+24V Power In
Terminal	"F"	Velocity Output 0-10V = 0-20mm/s
Terminal	"G"	Enveloped g Output 0-10V = 0-10g
Terminal	"H"	0V Power In

System Connection

