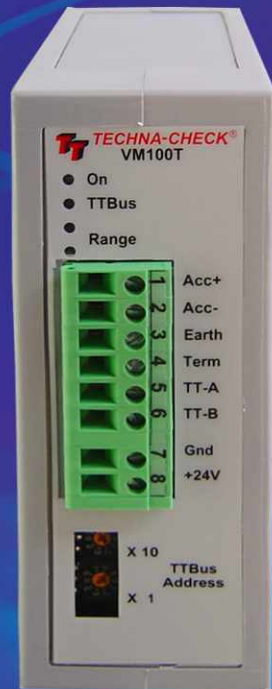


# VM100T



## TT TECHNA-CHECK® – VM100T Vibration Interface –

### Vibration Sensor Interface

A measurement transducer, which provides Vibration Monitoring for the TECHNA-CHECK® units.

### VM100T measures vibration (acceleration).

- TTBUS Networked Unit
- 4 Remotely Programmable Measurement Ranges
- 4 Remotely Programmable RMS averaging periods
- Remotely Programmable filters

The VM100T interfaces a propriety acceleration sensor to the existing TECHNA-CHECK® range of Machine Tool Monitors.

The purpose of the vibration monitoring is to catch for instance the damage of a tool like for instance a miller, which has damaged one of its inserts. When one insert is broken the next insert is forced to cut twice the amount of material, which will generate machine vibrations to be picked up by the VM100T.

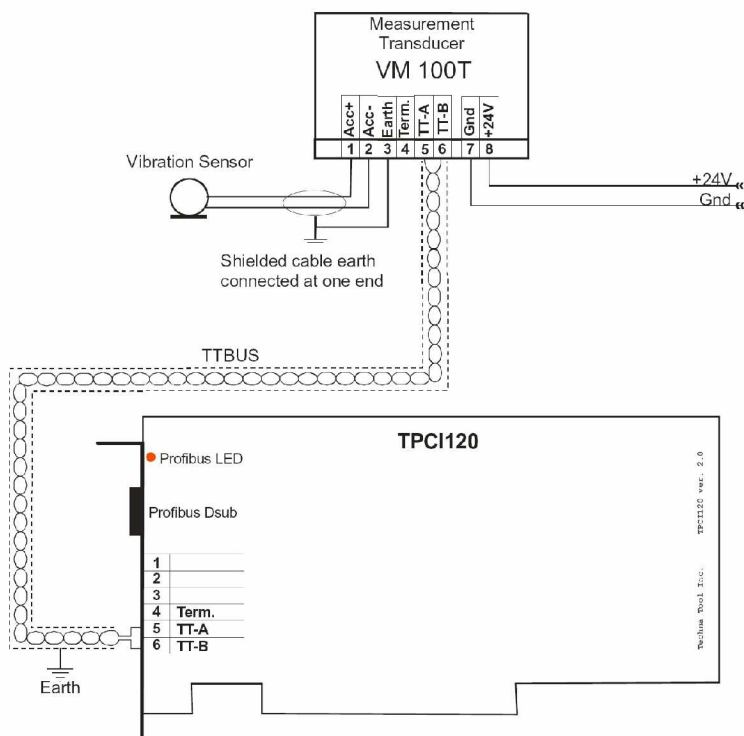
Another application is to protect high-speed spindles against operation with an unbalanced tool, which may lead to a rapid destroy of the spindle bearings.



## Technical Specification

<b>Mechanical</b>	
Housing:	Polycarbonate
Mounting:	35 mm DIN-rail
Protection Class:	IP40
Temp. Range:	-15 to + 50 C
Weight:	App. 300g (1 lb)
Dimensions:	D 118 x B 45 x H 137,5 mm
Connections:	Max 2,5 mm <sup>2</sup> (AVG 24)
<b>Electrical</b>	
Sensor Input:	Proprietary. Sensor supplied with unit.
Vibration Range:	+ - 0.5G, 0-1000 Hz
Supply:	18-24 VDC max. 2.5 Watt
TTBUS:	RS485

### VM100T Connection to TPCI120



**Note!**

Please use **good-quality** twisted and shielded cable earth-connected at one or both ends for the TTBUS network.

Last unit in the TTBUS network chain **must** be terminated.

Please connect a wire between terminal 4 and 6 on the VM100T (the TTBUS slave) when termination is required.

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