

The key to increased availability

Converter VA43T

*Avoid breakdowns by continuously monitor the condition of the machines.
VA43T offers a flexible monitoring system insensitive to interference.*



The converter is used for basic monitoring avoiding breakdowns caused by unbalance, misalignment, cracks in shafts etc.

Using one converter the vibration level is monitored. With a supplementary converter bearing condition is monitored.

The transducer and the converter are connected to a PLC for measurements and alarm settings.

Transducer

The standard transducer delivered with VA 43T is the velocity transducer VT 16.13. The transducer is well protected against water, oil, pressure, shocks as well as strong magnetic and electrical fields. VT 16.13 weighs 90 gram and has a maximum working temperature of 150 °C.

Other types of transducers, i.e. accelerometers, eddy current transducers etc., are delivered as options.



Technical specification

| | |
|----------------------------|---|
| Power Supply | 24±2.5 VDC, max ripple 100 mV RMS, 0.4% |
| Power Consumption | 0.8 VA |
| Working Temperature | 0-50°C |
| Storage Temperature | -25°C to +70°C |
| Temp. Drift Process Output | Less than 0.1% per 10°C |
| Input | Balanced with high CMRR input imp. 20kΩ |
| Range | 10 mm/s, 25 mm/s, 100 mm/s (selectable) |
| Accuracy | 10 mm/s ± 0.5% 25 mm/s ± 2.0% 100 mm/s ± 5.0% |
| Frequency Range | 1-1 000 Hz or 10-1 000 Hz, others on request |
| Output VDC: | 0-10 VDC, max load 5kΩ Accuracy better than 2% |
| Output Current | 0-20 mA or 4-20 mA, max load 500 Ω Accuracy better than 2% |
| Raw Signal Output | Linearized 10 mV/mm/s, max load 5 kΩ Accuracy better than 2% |
| Accuracy conv.+ transd. | Better than 4%. |
| Mounting | For DIN rail TS35 |
| Dimensions | d, h, b 110*75*23 mm |
| Option | Monitoring of bearing condition |

Order Code

VA43T
 1 2 3 4

Position 1: Specifies the type of transducer the converter is connected to

A = Accelerometer, 100 mV/g
 V = Velocity transducer, VT 16.13
 S = Schenk transducer, VS068/168

Position 2: Specifies the measurement range of the converter

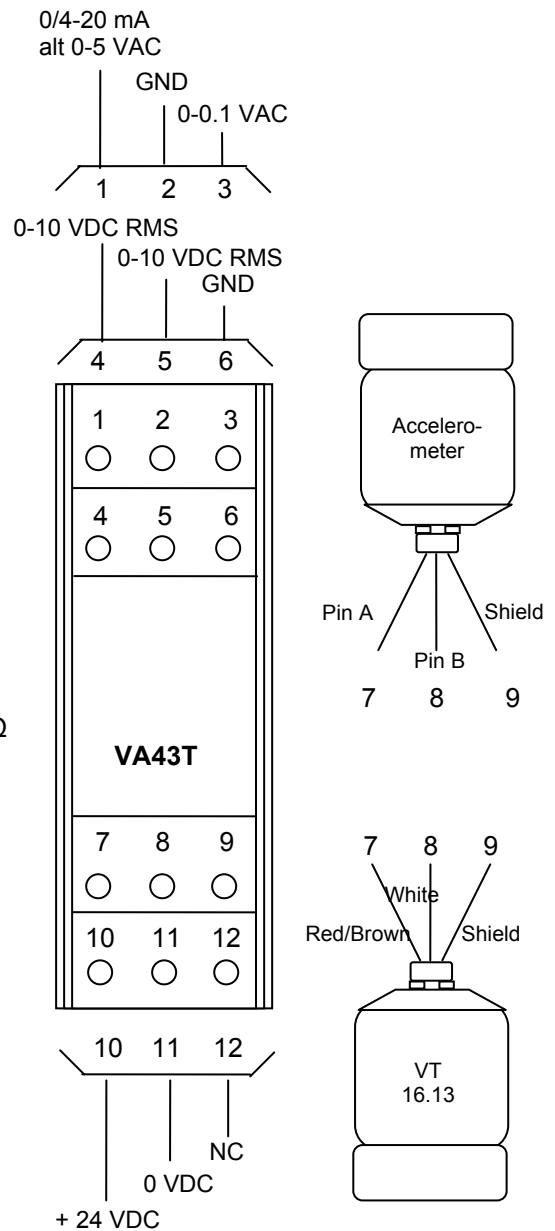
010 = 0-10 mm/s
 025 = 0-25 mm/s
 100 = 0-100 mm/s

Position 3: Specifies the output of the converter

0 = 0-20 mA
 4 = 4-20 mA

Position 4: Specifies the frequency range of the converter

01 = 1-1 000 Hz
 10 = 10-1 000 Hz
 LP = Low pass filter 1 000 Hz



Example

VA43T A 010 4 10

Converter connected to an accelerometer.

Measurement Range: 0-10 mm/s

Output: 4-20 mA

Frequency Range: 10-1 000 Hz