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.

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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%
- **Frequency Range**: 1-1 000 Hz or 10-1 000 Hz, others on request
- **Output VDC**: 0-10 VDC, max load 5kΩ
- **Output Current**: 0-20 mA or 4-20 mA, max load 500 Ω
- **Raw Signal Output**: Linearized 10 mV/mm/s, max load 5 kΩ
- **Accuracy conv. + transd.**: Better than 4%
- **Mounting**: For DIN rail TS35
- **Dimensions**: d, h, b 110*75*23 mm
- **Option**: Monitoring of bearing condition

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### Order Code

**VA43T**

**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

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**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