

## Route transfer to Computer Software via USB



**X Route**  
**X Total level**  
**X Envelope**  
**X Bearing Condition value**  
**X Analysis**  
**X Temperature**  
**X Speed**

**Selectable:**  
**X Measurement unit**  
**X Average value**  
**X Frequency range**  
**X Alarm level**

# Technical data

# Preliminary

<b>Transducers</b>	
<b>Standard vibration transducer</b>	<b>Accelerometer type AC140-2A</b>
Sensitivity	100mv/g
Frequency range (+/-3db)	1-10000Hz
Resonance frequency	23000Hz
Temperature range	-50°C ... +121°C
Mounting	Magnet holder, hand held or measurement point
Cable length	1m
<b>Vibration input electrical specification</b>	
Maximum insignal level	+/-5V Peak
Transducer signal	Accelerometer 100mv/g
Current- and power supply to transducer	+4mA constant current at maximum 20Vf or accelerometer
<b>Built in speed transducer</b>	
Measurement range	30 – 120.000 rpm
Measurement distance	0.15 – 1m
Measurement object	Reflective tape on the shaft
Automatic comparison with selectable alarm levels	Yes, 2 different limit values
<b>Built in temperature transducer</b>	
Measurement range	-33 to +220°C
Accuracy	±1°C
Resolution	0.5°C
Measurement distance	0.05 to 1m
Automatic comparison with selectable alarm levels	Yes, 2 different limit values
<b>Measurement properties</b>	
<b>Total level vibration:</b>	
Selectable frequency ranges	1-800Hz, 2-1600Hz, 4-3200Hz, 8-6400Hz
Selectable measurement units, Metric	mm/s, um, mm, m/s, g
Selectable measurement units, Imperial	in/s, mils, thou, g
Selectable type of average	RMS, Peak, P-P
Automatic comparison with selectable alarm levels	Yes, 2 different limit values
<b>Total level Envelope</b>	
Frequency range for transducer signal	800 - 6000Hz
Envelope level within the frequency range	1 - 1000Hz
Unit	gE RMS
Automatic comparison with selectable alarm level	Yes, 2 different limit values
<b>Total level bearing condition</b>	
Frequency range at bearing condition measurement	selectable between 0.5 – 8kHz, 1-8kHz, 2 – 8kHz, 4 -8kHz
Unit	g RMS
Automatic comparison with selectable alarm levels	Yes, 2 different limit values
<b>Analysis</b>	
	Same properties as with total level vibration
	Automatic analysis of 5f frequencies with the highest levels
<b>Route</b>	
	Downloaded from PC-software
Memory capacity	App. 999 measurement points
<b>Other</b>	
Dynamic measurement range	>80dB
Autoscale	Yes
Mainprocessor	Microprocessor 38Mhz
Internal memory	512kb Flash, 512kb RAM
Graphic display	68x124 pixel with background light
Realtime clock	Yes
Computer communication	USB maximum 115kb
Power supply	4 x R6 1800mA rechargeable NiMh batteries
Power usage at measurement / waiting mode	400mA / 200mA / 4uA ≈6 hour operation
Min/max surround temperature at measurement	-20°C ... +50°C
Dimensions	180 x 80 x 40mm
Weight	400gram inclusive batteries



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