

## Technical Data

### FAG DTECT X1 s

<b>Inputs/ Sensors</b>	<p>Inputs for IEPE sensors with power supply 24 V, 4 mA (standard) switchable between IEPE and +/- 10 V for other sensors (Optional: DC or AC coupled)</p> <p>Amplifier: 1 ~ to 1024 ~ or autoranging with switchable over-voltage detection</p> <p>Additional channel (validation) -10 – +10 V e.g.(with optional Isolation-Amplifier 4 – 20 mA, 0 – 20 mA, 0 – 10 V) for speed, load or other freely definable values</p> <p>Speed input for standard speed sensors ranging from &gt; 1 rpm to 30.000 rpm</p> <p>All inputs with industrial M12-connectors (except Power)</p>
<b>Temperature range</b>	-20 to + 70 °C
<b>Measurement values</b>	<p>Measurement value for vibration pickups: acceleration (standard), convertible to vibration velocity and vibration displacement by integration</p> <p>Measurement values such as displacement, speed, force, pressure, temperature etc. can be detected by appropriate sensors</p> <p>Optional: oil quality</p>
<b>Analysis methods</b>	<p>Time Domain, Frequency spectrum, Trendanalysis, Frequencybands (fixed or speed depending)</p>
<b>Characteristic values</b>	<p>Characteristic values in time range: RMS, peak, peak to peak, constant component, crest factor</p> <p>Characteristic values in frequency range: RMS value for vibration acceleration, vibration velocity and vibration displacement, (ISO 10816) broadband or freely definable frequency bands RMS value of demodulation (envelope processing) broadband or freely definable frequency bands</p> <p>Speed-dependent tracking of frequency bands in RMS and demodulation including speed-variable alarm level</p>
<b>Channels</b>	<p>2 or 8 channels with up to 16 monitoring configurations and up to 12 individually adjustable frequency bands per configuration, additional 2 trigger / validation channels, each simultaneously with sensor signal</p>
<b>FFT</b>	2048 lines, variable frequency range

## Technical Data

### FAG DTECT X1 s

<b>Filter</b>	Analog antialiasing filter for band limitation, Butterworth 24 db/oct. cut-off frequencies, 5, 10, 20, 50, 100, 200, 500 Hz, 1, 2, 5, 10 and 20 kHz Filter envelope analysis: high pass, Butterworth 12 db/oct. switchable 750 Hz and 2 kHz
<b>Outputs</b>	2 switch outputs for prealarm and main alarm 2 analogue outputs 4 – 20 mA or 0 – 20 mA all outputs as industrial M12 connector
<b>Communication</b>	Ethernet or RS 232 for connection of modem/ GSM/ ISDN
<b>Display</b>	LCD display, alphanumeric, 4 lines each with 20 characters for current measurement and current status of all configurations, LED red/yellow/green signal for alarm status
<b>Interfaces</b>	Keys for alarm confirmation and configuration of frequency input
<b>Memory</b>	For equipment/monitoring configuration, spectrum and time signal and storage of characteristic values of up to 3834 data records (dependent on the number of characteristic values and the information to be stored together with the characteristic values)
<b>Housing</b>	Dimensions: W ~ H ~ D = 260 ~ 150 ~ 90 Protection class: IP 67
<b>Mounting</b>	Mounting with closed lid (optionally top hat rail mounting)
<b>Current consumption</b>	24 V: < 350 mA, 230 V: < 40 mA
<b>Electromagnetic compatibility</b>	EN 61000-6-2/1999, EN 61326/1997, EN 55011-A
<b>FAG DTECT X1 s Server Software</b>	
<b>Operating system</b>	Windows XP SP3, from version 4.8 Windows 7
<b>Features</b>	Database: Microsoft SQL Server, 4 GB Software available in various languages Versatile connection options (Ethernet, GSM modems, landline modems, Internet etc.) Configurable remote operation with automatic data transmission Notification of alarm (e-mail, SMS) Continuous detection and storage of all occurring operating data Speed-dependent tracking of frequency bands in individual monitoring configurations Option of data export (ASCII) for further processing by external programs Optimised viewer for analysis of data