

## 701TXV Series Vibration Analyzers



### Analyze Vibrations. Align Machines. Do It All with One Tool.

The **701TXV Series** represents the next generation of dual and multi-channel vibration analyzers, engineered for comprehensive condition monitoring, diagnostics, and balancing of rotating machinery.

Designed for field reliability and lab-grade performance, these analyzers are the ideal solution for maintenance professionals, reliability engineers, and machine specialists across all industries.



From overall vibration levels and high resolution FFT spectrum analysis to ISO 10816 evaluation, bearing condition monitoring, and on-site balancing, the **701TXV Series** delivers high-speed, high-accuracy data with an intuitive user interface. Route-based data collection and advanced reporting tools help streamline predictive maintenance programs.

Each model supports seamless integration with our full range of transducers and accessories through **SmartMerge™**

Whether you're performing routine monitoring or in-depth analysis, the **701TXV Series** gives you the insight and tools to keep your assets running reliably and efficiently.

- Dual or Four channel Vibration Analyzer
- High resolution FFT spectrum analyzer
- Route based data collector
- In-field Balancer
- Bearings tester
- Optical tachometer and thermometer
- Built-in PDF reports generator
- Free data management software
- Optional Laser Alignment system

## Specifications

Inputs	x4 ch AC, ICP, Charge type x1 tacho, IR thermometer, Bearings Tester Probe, Laser Alignment Transducers
Frequency range	0.5...50000 Hz
Dynamic range	106 dB
AD conversion	24 bits
Sampling frequency	128 ksps, 4 ch simultaneous
FFT resolution	100 to 102400 lines
Measurement range:	
Vibration	Depends on the used transducer (25g for 100mV/g accelerometer)
Bearings tester	-30..+90 dBsv $\pm$ 3dBsv
Tachometer	10...200000 RPM $\pm$ 0.1‰ or $\pm$ 1 min <sup>-1</sup>
IR thermometer	-70°C to 380°C $\pm$ 0.5% (0...+60°C), $\pm$ 1% (-40...+120°C), $\pm$ 2% (-70...+180°C), $\pm$ 4% (-70...+380°C)
Measurement functions	Real time FFT Analyzer Run UP / Coast Down Route based Data Collector Balancer (up to 8 planes, 16 points) Bearings Tester (Shock Pulse level, Kurtosis) Optical Tachometer IR thermometer Optional – Laser Shaft Alignment and Geometrical Measurements System
External interfaces	USB host (thumb drive <32GB) USB device for PC connection and battery charging Wireless for S & M transducers 4-pin M9 connectors for Tachometer, IR thermometer, Bearings Tester Probe, S & M Laser Alignment Transducers
Storage	8 GB uSD card
Data files	Binary, CSV, built-in PDF reports
PC software	Free ConSpect software for data management
Battery	Rechargeable Li-Ion, 6.8 Ah, 8 hours continuous operation
Display	Color TFT, 5-inch, 800 x 480 px, sunlight readable
Case	High-impact ABS with TPE impact protection
Ingress protection rating	IP65 (Dust tight and protected against water jets)
Keypad	25 keys, membrane
CE conformity	Directives: 2014/35/EU, 2014/30/EU
Weight	Approx. 490g (1.1 lb)
Dimensions	205 x 108 x 40 mm (8.0 x 4.25 x 1.6 in) (LxWxH)
Temperature range	-10 to 50 °C (14 to 122 °F) Operation -20 to 70 °C (-4 to 158 °F) Storage

\*Specifications for the 701TXV-5C4 variant

## Kit content

- Display unit
- **TSW** unit S
- **TSW** unit M
- V-bracket x2
- Chain assembly x2
- 90 mm rods (stackable) x4
- 150 mm rods (stackable) x4
- Cables 1.5m x2
- Tape measure 3m
- Allen key x2
- Accelerometer, magnet, cable 1.5m x4
- Optical tachometer probe P77T x1
- 3-port USB wall charger
- USB-micro cable x3
- Carry case



## 701TXV System variants

701TXV	-C2	-C4	-5C2	-5C4	-C2qb	-C4qb
2-channels	✓		✓		✓	
4-channels		✓		✓		✓
¼ VGA 3.5"	✓	✓			✓	✓
480x800 5.0"			✓	✓		
qb Laser Alignment System					✓	✓

ALVIB SISTEMAS, SL  
 Punta Dels Escuts, 3  
 Castell-Platja d`Aro (Girona)  
 Spain 17250  
 info@alvibco.com

