

795M Entry to FFT Data Collector and Signal Analyzer (1-Channel)

The 795M is an economical portable single channel multi-function data collector and FFT spectrum analyzer. It is versatile for overall values measurement, bearing condition diagnostic, spectrum diagnosis and in-situ-multi-plane balancing of rotating machinery (up to 8 planes of correction, up to 16 point to check vibration).

It is a simple and useful device that allows for easy condition monitoring and unbalance correction of any rotating equipment found almost in every process industries. With the Windows based program "ConSpect" software, it creates an easy to use, cost effective, scalable solution that meets the needs of the novice as well as advanced user.

The small, rugged, and light weight IP 65 design makes it ideal for any harsh industrial environments.



Features

- Vibration measurement of Velocity, Acceleration and Displacement
- Trending of characteristics overall values on conspect software
- Shock pulse measurement for bearing condition evaluation
- Frequency spectrum analysis
- Time- domain analysis
- Envelope spectrum analysis for ball and slider bearing
- Display of true RMS and Peak-to-Peak values
- Non-contact infra-red tachometer sensor for rotation frequency
- Phase measurement
- Run-up / Coast-down measurement
- Dynamic multi-plane balancing of up-to 8 plane
- Rechargeable battery save to trouble of battery replacement and money.

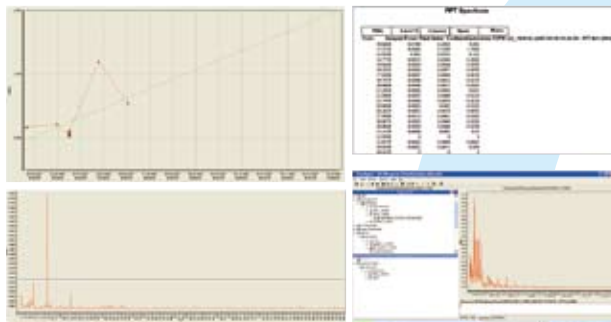
TECHNICAL SPECIFICATIONS

Instrument

Input Signal Type Charge (piezoelectric accelerometer)
 Signal RMS, Peak-to-Peak, 0 to Peak
 Measurement Parameters Acceleration, Velocity, Displacement, FFT domain, Shock-pulse, phase
 Frequency Range 2 Hz to 10 kHz
 Sampling rate 33 kHz

Dynamic Frequency Range

Acceleration 2 – 10000 Hz (-3dB) & 0.01 – 500 m/s²
 Velocity 2 – 16 Hz (-3dB) & 0.8 - 5000 mm/s
 10 – 1000 Hz (-3dB) & 0.1 - 79 mm/s
 Displacement 2 – 16 Hz (-3dB) & 0.05 - 50 mm
 10 – 100 Hz (-3dB) & 0.003 - 1.2 mm
 10 – 1000 Hz (-3dB) & 0.003 - 0.02 mm
 Accuracy ±5%



The ConSpect software allow user to create A, V, S data report, FFT Spectrum and also trending result report

Date/Time	Tunings			Measurements		Results of diagnostics, recommendations	Bearing	Oil
	N (rmp)	Outer diam	Init level	dBm	dBc			
Mazak/Production Flr/Good Stk/0514 095219								
5/14/2007 10:24:00 A	200	80	7	24	16	The generation of defects of bearing. Satisfactory condition of lubricant. Partial additive of lubricant.	☹️	☹️
5/14/2007 10:27:04 A	1000	65	20	12	8	Good state of bearing, Good state of oil.	😊	😊
5/14/2007 10:29:56 A	2000	65	26	11	6	Good state of bearing, Good state of oil.	😊	😊
5/14/2007 10:31:28 A	5000	65	34	11	7	Good state of bearing, Good state of oil.	😊	😊
Mazak/Production Flr/Suspected Stk/0514 105401								
5/14/2007 10:56:06 A	200	80	7	22	14	The generation of defects of bearing. Satisfactory condition of lubricant. Partial additive of lubricant.	☹️	☹️
5/14/2007 10:57:34 A	1000	80	21	25	20	The generation of defects of bearing. Satisfactory condition of lubricant. Partial additive of lubricant.	☹️	☹️
5/14/2007 10:58:46 A	2000	80	27	25	20	The generation of defects of bearing. Satisfactory condition of lubricant. Partial additive of lubricant.	☹️	☹️
5/14/2007 11:00:30 A	5000	80	35	35	30	Significant defects.	☹️	☹️
5/14/2007 11:02:08 A	5000	65	34	27	23	The generation of defects of bearing. Satisfactory condition of lubricant. Partial additive of lubricant.	☹️	☹️
5/14/2007 11:03:52 A	3000	65	20	22	19	The generation of defects of bearing. Satisfactory condition of lubricant. Partial additive of lubricant.	☹️	☹️
5/14/2007 11:04:48 A	2000	65	26	21	16	The generation of defects of bearing. Satisfactory condition of lubricant. Partial additive of lubricant.	☹️	☹️
5/14/2007 11:05:16 A	1000	65	20	24	20	The generation of defects of bearing. Satisfactory condition of lubricant. Partial additive of lubricant.	☹️	☹️

Indications: 😊 - good; ☹️ - satisfactory; ☹️ - bad; ☹️ - dangerous;