



Model	AS-200 (ABP)	ES-500 (ABP)	Vk-315A (Promitech)	VD-30 (Promitech)	AC102 (CTC)	LP252 (CTC)
Type	Accelerometer	Displacement Sensor	Accelerometer (High Temperature)	Accelerometer	Accelerometer	Velocity
Order Number	S-A-02	S-E-04	S-A-04	S-A-05	S-A-06	S-V-01
Sensitivity (25°)	100 mV/g ±10%	8V/mm (200mV/mils) ±4%	100 mV/g ±2%	100 mV/g ±2%	100 mV/g ±10%	---
Frequency Response (3.0 dB)	0.3Hz-8KHz	0Hz to 10 KHz	5 Hz to 10 KHz	5 Hz to 10 KHz	0.5 Hz-15KHz	3Hz-2.5KHz
Dynamic Range	50 g peak	2-22mm *	50 g peak	50 g peak	50 g peak	
Probe Diameter*	---	8-40mm *	---	---	---	---
Operating Temperature	-10°C ~ +85°C	Probe: -30°~+100°C Extension cable: -30°~+120°C Transducer: -20°~+180°C	Transducer: -40to +250°C External amplifier: -30to+60°C	-40 ... +100°C	-50°c ~ 121°c	-40°c ~ 85°c
Output Signal	ICP™	Voltage	Voltage	ICP™	ICP™	4-20 mA
Max. cable length (m) (Transducer / Transmitter)	300 m	9 m/ 1000 m	15 m/300 m	300 m	300 m	30 m
Output Connector	TNC 7/17-28	ClickLoG	4 pin MIL-XP1	4 pin MIL-XP1	2 Pin MIL-C-5015	2 Pin MIL-C-5015
Power Supply	+ 18 to 30 VDC (4-20 mA)	-24vdc	5 to 30 VDC	7 to 15 VDC	+ 16 to 30 VDC (2-10 mA)	15 to 30 VDC
Installation & Mounting	M5 × 1	M10*1~M22*1,5	3 × φ 4.8	3 × φ 6.6	M6 × 1	M6 × 1
Sensing Element Design	PZT Ceramic (Shear Design)	Eddy current proximity sensor	PZT Ceramic (Shear Design)	PZT Ceramic (Compression Type)	PZT Ceramic (Compression Type)	PZT Ceramic (Compression Type)
Case Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Weight (g)	40	*	50	300	90	82
Dimension	39.6mm*φ19mm	*	26.5 × φ 31mm	48 × φ 38 mm	52*φ21mm	52*φ 21mm
Hazardous Area Rating	---	---	II 1G, Ex ia IIC, Class I, Div. 1, Groups A-D, I.S. Rated		---	---
Environmental rating (NEMA 4)			IP 65 (connector IP 68)			

\* Adjustable At Factory



Specification	Rotary Machine Diagnostics Vibro - RMSD	Vibro-SCADA	Vibro - MPRO 1030	Vibro-CMS
Modbus slave	---	✓	---	---
Modbus master	---	✓	---	✓
Auto Date center back up	---	✓	---	✓
Remote update	---	✓	✓	---
Route	---	✓	---	---
Time capture	---	---	✓	✓
SQL database	---	✓	✓	---
Trend	✓	✓	✓	---
Graphic layout	✓	✓	---	✓
Alarm page	---	✓	---	---
Hardware Support	---	VibroRack3000 VibroControl 300 VibroRail 100	Vibro1030	VibroRack 1000
Bar graph page	---	✓	---	✓
Machine Performance	---	✓	---	---
Report Generation	✓	✓	✓	---
Spectrum	✓	---	✓	✓
Time Signal	✓	---	✓	✓
Shaft centerline	✓	---	---	✓
Waterfall & STFT	✓	---	---	✓
Order & Orbit	✓	---	---	✓
<b>The following utilities are only available in Vibro-CMS software:</b>				
Rotary Machine Diagnostics Software	Bearing, gearbox, belt & electric motor diagnosis, Harmonic and Sideband analysis			✓
Reciprocating machines Monitoring toolbox	Crank Angel overfly plot, Rod Position Plots, Crank Angle Waterfall Plots			✓
Rotor Balancing toolbox	1&2 plane rigid rotor balancing, Flexible rotor balancing (Bode plot & polar graph)			✓
Sound & Acoustics Application	Bridge to PULSE™ Sound & acoustics analysis software			✓
Structural Dynamics	Impact modal analysis, Bridge to ICATS™ & ARTEMIS™ modal testing & analysis software			✓

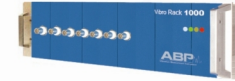
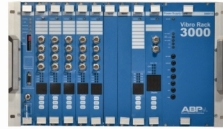
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Model	Vibro 1030	GJX3
Type	Data Collector	Calibrator
Order Number	D - 09	D - 08
Input Type	AS-200 / accelerometer	---
Input Channel	1	---
Out Put	---	-24V For Proximity Probe Wave Shape Of The Out Put Signal
FFT Resolution	1024	---
Dynamic Range	0.1 to 50 m/s <sup>2</sup>	Max 30 m/s <sup>2</sup> Peak , 80HZ
Frequency Response	0 – 1500HZ	10,20,40,80,160,320,640,1280Hz,±0.01
Measurement Unit	m/s <sup>2</sup> , mm/s , mm	mm/s ,m/s <sup>2</sup> , μm
Measurement Type	Peak , Peak-Peak , RMS	Peak , Peak-Peak , RMS
Route Feature	✓	---
Route Software	MPRO 1030	---
Accessories	Accelerometer Sensor- Battery Charger Serial Cable – Protective Cover	Fixing Stand For Proximity Probe Spindle Micrometer Tool To Fix The Sensor Testing Plate For Proximity Probe Fixing & Transition Screw
Analyzer Specifications	Overall Vibration, Time Signal* Spectrum*	---
Operating Temperature	0 to 60°C	-20°C to 70°C
Memory	512 Kbyte	---
Dimension	200 * 110 * 40 mm	280 * 180 * 250 mm
Weight	690 gr with battery	8.4 Kg
Battery Duration Of Measurement	Max 3 hours	---



Model	Vibro Rail 100	Vibro EX50
Order Number	C-04	C-02
Input Type	Accelerometer Velocity Displacement	
Input Power	18-36VDC, 100mA max	
Current Output	4~20mA, 0.37 $\frac{mA}{(mm/s)}$ Overall Vibration or dynamic data	
Buffer Output	Buffered output via BNC	Needs a BNC connection box
Frequency Response (-3 dB)	3HZ-5KHZ *	
Relays Output	Alarm & shutdownRelays	
Measurement Unit	m/s <sup>2</sup> , mm/s , μm DC-gap	
Standard Communication	Modbus RTU	---
Software	Vibro-SCADA	---
Remote Reset Alarm	✓	
Alarm Delay	Configurable by software	Configurable with Dip switches, 0.5 up to 15 seconds
Input Gain	1 , 2 , 5 , 10	
Full Scale Unit	0-210 mm/s	
Operating Relative humidity	<95%	
Case Material	Polyamide	Cast Aluminum Alloy
Case Dimension W×H×D	22.5*99*127 (mm)	112.5*112.5*79 (mm)
Operating Temperature	-25°C to 80°C	
Explosion Proof Housing	---	Exd IIC T6, TS or T46b
Vibration Switch System	Microprocessor Based	Analog Based



Model	Vibro control 300	Vibro Rack 3000
Order Number	P1-07	P2-015
Input Type	IEPE/ICP®/charge mode accelerometer Displacement Sensors Velocity Sensors Keyphasor®/ Tachometer 4~20mA dynamic signal Other voltage/ current driven sensors	IEPE /ICP®/charge mode accelerometer Displacement Sensors Velocity Sensors Keyphasor®/ Tachometer RTD 4~20mA dynamic signal Other voltage/ current driven sensors
Number of Channels	4 Channels	UP to 36 Channels
Input Connector	Screw Terminal	
Input Power	24 VDC,200mA	220~240 VAC, 300mA
Current Output	- 4~20mA/ 0.5 VDC dynamic/static signal	
Buffer Output	Buffered output via BNC	Buffered output via BNC in front plane of Rack Buffered output via Terminal in back plane of Rack
Sampling Rate	1Hz to 10KHz per channel *	
Display & Keyboard	5 Buttons Keypad 128*64 Graphic LCD	3 Buttons Keypad Seven Segment Display for Each Card
Relays Output	2 Relays (alarm & shutdown) / channel	2 Relays (Aalarm & Shutdown) / channel
API-670 Compliance	Delay Alarm , DC Gap – Phase – Gap Voltage – By Pass - Alarm & Shutdown – Frequency – Overall Value Of Dynamic Signal - Gain	
Measurement Unit	m/s <sup>2</sup> , mm/sec , mm , g , mils , DC-gap , RPM , degree	
Communication Protocols	RS232(Modbus RTU / Slave) RS485(Modbus RTU/ Slave)	RS232(Modbus RTU/ Slave)-Modem RS485(Modbus RTU/ Slave)-HMI TCP/IP (Modbus TCP) * Remote I/O Port(Modbus RTU Master)
Safety	IEC 61010 – IEC 61508 – IEC 61511	
EMC	IEC 610002-4 , IEC 610002-6	
Remote I/O Support	–	✓
Software Support	Vibro-SCADA	
Modules	–	CPU and Gateway(3000/01) Vibration Module (3000/04) Keyphasor® Module (3000/25) Power supply Module (3000/15) Remote I/O Module(3000/60)
Operating Temperature	-40o ~ +85°C	
Installation & Mounting	Panel Mount	19" Rack Mount
Dimension	90*90*185mm	426*277*259mm
Weight	1 Kg	3.2Kg

Model	VibroRack 1000	
Order Number	A1-06	
Input Channels	8 Channels	
Input type	ICP® / charge mode accelerometer Displacement Sensors Velocity Sensors KeyPhasor®/ Tachometer (only channel #1) Acoustic microphone Modal Hammer (only channel #1) Dynamic Pressure Other voltage/current driven sensors	
Input Signal	Direct sensor connection Transmitter / conditioner connection Parallel connection to 3rd party hardware such as Bently-Nevada, Vibrometer, Schenck protection/monitoring systems	
Measurement Unit	m/s <sup>2</sup> , g, mm/s, μm, mils, mils/s, RPM	
Input Power	110 - 220VAC	
Current Output	4~20 mA overall data for DCS/ PLC, 0.37 $\frac{mA}{(mm/s)}$	
Buffer Output	Buffered output via BNC	
Sampling Rate (Hz)	Simultaneous From 0.1 Hz to 10 kHz per channel	
Number Of Sampling	From 1000 to 65536 Sample per channel	
Data Acquisition Resolution	12 Bit	
Dynamic Range	60dB	
Installation & Mounting	19" Rack mount	
Dimension	480*90*270 mm	
Operating Temperature	0°C to +65°C (RH up to80%)	
Vibro-CMS Software & Applications	Vibro Condition Monitoring Software	FFT, Time waveform, Waterfall, Orbit, Shaft centerline plot, Order spectrum
	Vibro rotary Machine Diagnostics Software	Bearing, gearbox, belt & electric motor diagnosis , Harmonic & Sideband analysis
	Structural Dynamics	Impact modal analysis, Bridge to ICATS™ & ARTEMIS™ modal testing & analysis software
	Sound & Acoustics application	Bridge to PULSE™ Sound & acoustics analysis software
Input Connector	Reciprocating Machines monitoring toolbox	Crank Angle overlay plot, Rod Position Plots, Crank Angle Waterfall Plots
	Rotor balancing toolbox	1 & 2 plane rigid rotor balancing, Flexible rotor balancing (Bode plot & polar graph)
Standard Communication	TCP/IP protocol encapsulating	

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