

## Technical data

### System module - VIB 7.8xx

	VIB 7.800	VIB 7.810	VIB 7.811	VIB 7.815	VIB 7.820	VIB 7.825
<b>INPUTS AND OUTPUTS</b>						
<b>Analog IN</b>	20 synchronous channels: 16 x vibration, 4 x process parameter		16 syn. ch.: 12x Vib. 4 x Process	20 synchronous channels: 16 x vibration, 4 x process parameter		
<b>Signal type, Ch. variations</b>	16 x U, 4 x U/I	16 x U (IEPE), 4 x U/I	12 x U (IEPE), 4 x U/I	8 x U (IEPE) + 8 x U, 4 x U/I	16 x I (CLD), 4 x U/I	8 x I (CLD) + 8 x U, 4 x U/I
<b>Sensor type</b>	Sensor w/ current or voltage output, Displacement sensor	IEPE-type sensor, Sensor w/ current or voltage output, Displacement sensor		CLD-type sensor, Sensor w/ current or voltage output, Displacement sensor		
<b>Digital IN</b>	4 optocoupler inputs 0-30V, Threshold 3V					
<b>Tacho-Puls IN</b>	2 frequency inputs $\pm 30V$ DC and AC. Threshold $\pm 30V$ DC (default 2.5V)					
<b>Digital OUT</b>	3 relay changeover contacts, 30VDC/30VAC/2A					
<b>System OK OUT</b>	Relais NC, 30VDC/30VAC/2A					
<b>Ethernet</b>	Data rate: 100 MBit, half duplex					
<b>Serial ports</b>	2x RS232, 115200 baud					
<b>Services</b>	Modbus-TCP, Modbus RTU (RS232)					
<b>LED indicators</b>	20x Analog-IN (VIB 7.811: 16x Analog-IN), 1x System, 2x Status, 2x Ethernet, 4x Digital-IN, 2x Tacho-IN					
<b>MEASUREMENT</b>						
<b>Dynamic range</b>	110 dB @ 24 bit					
<b>Sampling rate</b>	131 kHz / 50 kHz band width					
<b>FFT lines</b>	6400 (Standard), 102400 (Analysis)					
<b>Meas. range, process channels</b>	$\pm 24V$ or 4-20 mA, $\pm 20mA$					
<b>Meas. range, vibration channels</b>	$\pm 24V$	---	---	$\pm 24V$	---	$\pm 24V$
<b>GENERAL</b>						

	VIB 7.800	VIB 7.810	VIB 7.811	VIB 7.815	VIB 7.820	VIB 7.825
<b>Ambient temperature</b>	Operation: -20°C ... +70°C (-4°F ... + 158°F) Storage: -40°C ... +80°C (-40°F ... + 176°F)					
<b>Relative humidity</b>	max. 95 % (at 25°C [77°F], no condensation)					
<b>System supply</b>	24±6 VDC / 0.5 A					
<b>Sensor supply</b>	Current (CLD = Current Linedrive), Voltage (IEPE)					
<b>Memory capacity</b>	Flash: 2 GB (expandable), RAM: 128 MB					
<b>Case material</b>	Aluminum					
<b>Weight</b>	approx. 1.2 kg (2.65 lb)					
<b>Env. protection</b>	IP 20					

Parameter	Power supply, Safety, Protective housing
<b>Power supply</b>	
<b>Voltage</b>	100V ... 240V 1-phase / -10% ... +10% / 50Hz ... 60Hz
<b>Current draw including system module</b>	max 1.3A
<b>Overvoltage category</b>	II
<b>Protection class</b>	I
<b>Protective housing</b>	
<b>Ambient temperature</b>	-20°C ... +60°C [-4°F ... +140°F]
<b>Relative humidity</b>	max. 95% (25 °C [77°F ], no condensation)
<b>Altitude</b>	max. 2000 m [6562 ft.]
<b>Installation site</b>	Indoor installation (no direct sunlight)
<b>Mounting</b>	Single housing wall-mounted, screw connections downwards
<b>Protection class</b>	IP 66
<b>Weight</b>	13 kg [ 458,6 oz ] (VIB 7.8xx SDH)