

Number of analog and digital measurement channels	5 with simultaneous sampling, internal 3D accelerometer
Analog input type	3 voltage inputs for external sensors (Binder 420 connector)
Analog input configuration	AC voltage mode with integrated current source for ICP/ IEPE (CLPS™) sensors supply (external channels)
Analog input voltage range	±2,5V (other as an option)
Analogue to digital converter type	4 converters of $\Delta\Sigma$ type
Analogue to digital converter resolution	24 bits
Digital input type	1 opto-isolated digital input for phase sensor or tachometer (low level: <1,4V, high level: >5V, maximum input voltage 9V, other value as an option)
Internal vibration sensor parameter	<ul style="list-style-type: none"> perpendicularly oriented 3D vibration acceleration range: ±100 g (other as an option) frequency bandwidth (-3dB): 0,4 ... 21000 Hz frequency bandwidth (10%): 0,8 ... 10500 Hz sensitivity tolerance: ±5% program compensation of temperature influence
Analog input overall noise level	50 μ V _{RMS} (for $f_{out} = 65,536$ kHz, frequency range 25,6 kHz)
Signal sampling frequency (f_s)	1..8 MHz
Effective sampling frequency (f_{out}) (output data actualization frequency)	65,536 kHz maximum
Applied filters	<ul style="list-style-type: none"> 3rd order Butterworth analog low-pass filter , frequency limit $f_{3dB\ high} = 68$ kHz 1st order analog high-pass filter, frequency limit $f_{3dB\ low} = 0,5$ Hz anti-aliasing low-pass filter, linear phase, frequency limit set automatically as $f_{3dB\ high} = 0,49f_{out}$ ($f_{0,005dB\ high} = 0,39f_{out}$, $f_{-100dB\ high} = 0,54f_{out}$)
Signal gain error	±0,02 % (with calibration in the measurement condition)
Overall maximal measurement error (without/with sensor)	±0,1 % / ± 5% measurement range (with calibration in the measurement condition)
Calibration	<ul style="list-style-type: none"> factory calibration of the reference measurement path built in mechanism of zero level and gain calibration
CLPS™ sensor power supply	2mA / 20V (other as an option)
Integrated contactless IR sensor	<ul style="list-style-type: none"> 16 x 4 point matrix (observation angle 60° x 16,4°) temperature measurement range: -50..+300°C measurement accuracy (0..+300°C): ±1°C ±3% $T_o - T_a$ (T_o: object temperature, T_a: ambient temperature) measurement accuracy (-50..0°C): ±3°C ±5% $T_o - T_a$ (T_o: object temperature, T_a: ambient temperature)
Communication interface	IEEE802.11b/g/n WiFi, WPA2 wireless digital output for measurement synchronisation (option)
Communication protocol	ATC MESbus
Operation condition	Temperature: -5..+60°C; humidity: 10..90% RH
Software	ViMEA DAQ; ViMEA VIDIA; ViMEA DAAC/VSI as an option: API, Matlab control function, LabView driver, application specified
Power supply	<ul style="list-style-type: none"> Li-Poly 3,7V/3000mAh internal battery with integrated charger power supply 5V/1A working time: up to 20 hours built-in energy saving and battery protection mechanisms

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