

INDUSTRIAL ACCELEROMETERS



ICP/IEPE TYPE ACCELEROMETERS

Code	Range	Sensitivity	Frequency Band
CAYD115V	±50 g	95~105 mV/g	3~2,500Hz
CAYD115V-L01	±50 g	95~105 mV/g	0.1~2,000Hz
CAYD115V-100	±50 g	95~105 mV/g	1.5~7,000Hz
CAYD119V-50 Miniature	±50 g	90~110 mV/g	1~10,000Hz
CAYD052V-35	±80 g	30~40 mV/g	1.5~6,000 Hz
CAYD052V	±100 g	95~108 mV/g	1.5~6,000 Hz
CAYD211V-1000	±10 g	1000 mv/g±10%	0.1~11,000Hz
CAYD060V Ultra Low Frequency	±10 g	9~11 V/g	0.003~500Hz



MEMS / CAPACITIVE TYPE ACCELEROMETER

Code	Range	Sensitivity	Frequency Band
CA3ZDR186V-30 MEMS	±30 g	66.7±3.3mV/g	DC~3000Hz
CADR152V-200	±200 g	10±2 mV/g	DC~3000Hz
CADR152V-100	±100 g	20±2mV/g	DC~3000Hz
CADR152V-50	±50 g	40±2 mV/g	DC~3000Hz
CADR152V-2	±2 g	1000±50 mV/g	DC~800Hz
CADR186V-2A	±2 g	100±50 mV/g	DC~800Hz



Accelerometer models with different acceleration range, frequency band and sensitivity are available other than listed above. Please check "www.testart.com.tr -Sensor and Test portal" for broader options, or contact us.

Modal Analysis

Helicopter and Aeroplane Tests

High Speed Trains

Transportation Vehicles
Vibration Monitoring

Automotive and Crash Tests

Wind Turbines Energy Plants

Oil Pipelines

Machine Health Monitoring and Balance

High Frequency Vibration Tests

Voltage Output

Durability in Harsh Environments

GEPHONES



High Precision Geophones

- Advanced Design
- High Precision and Linearity
- Long Term Stability
- Signal Protection Functions
- SS-10PN Series:10 Hz
- SS-10PD:10 Hz

Conventional Seismic Geophones

- Suitable for seismic and geological researches in different depth and soil types
- Reliable performance
- Small dimension and lightweight
- SS-XD Series: 8/10/14/28/40 Hz Options
- SS-XN Series: 4.5/8/10/14/28/35/40/60/100 Hz Options



GEPHONE BOXES

Geophone Box - Land (Soil)



Geophone Box - Marsh



Horizontal Geophone Box



Tri-Component Geophone Box



SENSOR GROUP 2

IMU (Inertial Measurement Units)

World's Smallest Class Size

Ultra Low Power Consumption



Teknik Destek Grubu offers these high grade IMUs recently developed by EPSON.

IMUs are multi-sensor structures, which contain both gyros and accelerometers, produce direct digital output and provide motion, position and orientation information. These products developed with a state of the art technology based on the experience and knowledge of EPSON.

- Small Dimension, Lightweight: 24x24x10mm, 7grams
- Low Noise- High Stability
 - Gyro Bias Instability: 6 degrees/ hour
 - Angular Random Walk: 0.2 degrees/ square root - hour
- Starting Bias Error: to 0.5 degrees/sec (1 σ)
- 6 Degrees of Freedom
 - Triple Gyroscopes: ± 300 degree/second
 - Triple Accelerometers: ± 3 G
- 16 bit Data Resolution
- Digital Serial Interface: SPI / UART
- Calibrated Stability (Bias, Scale Factor, Axial Alignment)
- Data Output Rate: Up to 1 k Sps
- Calibrated Temperature Range: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Operating Temperature Range: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Single Voltage Supply: 3.3 V
- Low Power Consumption: 30mA

Motion Analysis and Control






Unmanned Systems

Navigation Systems

Vibration Control and Stabilization

Pointing and Tracking Systems

Vibration Monitoring For Comfort and Safety in Trains

ID#	Gyro Range [°/s]	Bias Instability [°/hr]	Angular Random Walk [°/√hr]	Acceleration Range (g)	Interface	Package Size (mm)	Operating Temperature [°C]
M-V340	± 450	7	0.2	± 6	SPI/UART	10x12x4 	-40 to +85
M-G362	± 150	3	0.15	± 3	SPI/UART	24x24x10 	-40 to +85
M-G352	± 400	6	0.2	± 6	SPI/UART	24x24x10 	-40 to +85
M-G350	± 300	6	0.2	± 3	SPI/UART	24x24x10 	-40 to +85
M-G550-PC/PR	± 300	6	0.2	± 3	CAN/RS-422	52x52x26 	-25 to +70

M-G362, M-G352 is still in R&D period. However engineering samples are available for the parts which are still in R&D period.

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IMU (INERTIAL MEASUREMENT UNITS)

INDUSTRIAL ACCELEROMETERS

GEOPHONES

For broad options and detailed information:
www.testart.com.tr
 Sensor and Test Portal