

ONOSOKKI

Portable 2 Channel / 4 Channel FFT Analyzer
Sound & Vibration Real Time Analysis System
Handheld Digital Tachometer
Digital Engine Tachometer
Volumetric Type Fuel Flow Detector
On-Board Flow Meter



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01 OPTION

Portable 2 channel/4 channel FFT Analyzer CF-9200/9400

The CF-9200 and CF-9400 are an all-in-one portable FFT analyzer. The new, exclusively developed 100kHz high-performance analysis front-end system incorporating a 24-bit A/D converter enables easier and more reliable analysis of noise and vibration generated.

Features

- Real-Time Tripartite graph/ VC Curves.
- Isolated all Inputs
- CCLD equipped, TEDS available
- Easy operation through a touch panel interface
- Cable disconnection detecting function
- FFT Basic analysis function-Time-axis waveform
- Power spectrum & Frequency response function

Optional Analysis Software

- Tracking analysis software(CF-0922)
- Octave analysis software(CF-0923)
- Log sweep/excitation control function(CF-0942)



02 OPTION

Sound & Vibration Real-Time Analysis System DS-3000

The DS-3000 series can perform real time analysis of noise and vibration. The DS-3000 series Data Station is a PC-based FFT Analyzer with high functions and high performance, Having the high-speed calculation performance, reliability, and user-friendliness. Supporting USB 3.0 enables fast data transmission by connecting a commercial cable for USB 3.0. Available up to 32 channels of simultaneous recording in audible frequency (20 kHz), with a dynamic range 110 dB max.

Features

- Measuring sound
- FFT analysis & Octave analysis of sound
- Rotational tracking analysis of vibration & noise
- Vibration measurement in a range of ultrasonic using a Laser Doppler Vibrometer

Optional

- Real-Time Tripartite Graph display Function
- Mouse Gesture function
- Equation operation function
- File averaging Function for tracking analysis results



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OPTION

> **External sensor input type-Handheld
Digital Tachometer
HT-6200**

HT-6200 is a handheld tachometer with built-in batteries. Combined with optional detectors, various rotation measurements are possible depending on the measurement objects or purpose. Various measurements such as rotation (r/min, r/s), accumulated rotation (counter), cycle (ms), line speed (m/min) are available

Features

- Rotation measurement of EV, HEV motors , gasoline & diesel engines
- Up to 20 data can be stored. (Built-in memory function)
- The maximum and minimum values can be displayed during measurement. (Peak-hold function)
- Three outputs are provided as standard. (Analog, monitor and pulse)



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OPTION

> **Digital Engine Tachometer
CT-6700**

The CT-6700 is a digital engine tachometer to measure revolution speed of gasoline or diesel engines, motors (EV/HEV) equipped on electric vehicles or hybrid electric vehicles or general rotating bodies. It can be mounted and measured on a detector on an actual vehicle.

Features

- High response measurement- Analog output response; 1 cycle+8 μ s or less of input signal –
- Supports various sensors with different purposes
- Automatic setting of trigger level with the Trigger Assist Function
- Measurement by ECU crank signal of unequal interval pulses (option: CT-0672)
- High speed digital data output by CAN* interface (option: CT-0671)
- Pulse output function for tracking analysis.
- Deceleration calculation function supports the measurement in engine stop.
- Comparator functions for monitoring engine measurement condition.



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OPTION



Volumetric Type Fuel Flow Detector FP-213S

These positive displacement flow meters are capable of making high precision measurement of different fluid flows ranging from micro- to large-capacity flows when used in combination with an FP-Series flow detector and a DF-Series flow meter.

Features

- High precision within $\pm 0.2\%$ of the readings.

Enabling following functions in combination with DF Series Flow Meter

- Capable of making direct measurement of flow rates by mass.
- Wide measurable range thanks to a flow rate ratio of 1:400 or more.
- Capable of compensating for errors caused by pulsating or back flows by a function for detecting the direction of rotation.
- High reproducibility and high-speed responsiveness result in superb reliability.



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OPTION



On-Board Flow Meter DF-2200

The DF-2200 On-Board Flow Meter is a compact on-board fuel flow meter. It accepts pulse signal SIG A and SIG B that have phase differences, and includes the backward flow correction function for back-flow. Besides the flow rate, the items of time/ temperature (resistance temperature detectors)/ pressure (voltage input) can also be measured.

Features

- Compact body optimum for on-board testing. Easy to install in a vehicle
- The flow rate/ temperature/ pressure can be measured with just one unit
- Analog output with high-speed response (with average processing function)
- CAN output (standard) and RS-2232C (option) are installed as communication system
- Total auto stop function is provided as an option.
- This is also used for measurement on engine bench.

