VW Data Recorder

Applications

The VW Data Recorder is a recording readout for pluck-type vibrating wire sensors, RTDs, and thermistors.

The VW Data Recorder is simple to operate, stores up to 8000 readings, and can transfer the readings to a PC for processing.

Basic Operation

The VW Data Recorder has just three controls: an on/off switch, an Enter key, and a Change key.

To take a reading, switch on the power, connect the sensor, and press the Enter key. The reading appears.

To save a reading, press Enter twice more, once to confirm a sensor ID, and once to record the reading.

Settings

To change a setting, press the Change key. You can set the display to show Hz, Hz^2 or microstrain and choose thermistor or RTD for the type of temperature device built into your sensor. The Change key also lets you set a sensor ID when you save a reading.

Transferring Readings to a PC

Connect the VW Data Recorder to your PC and run Logger Manager software. Specify a file name and location for the readings, and two mouse clicks later, the data is on your PC, ready for your spreadsheet program.

Advantages

Wide Compatibility: The VW Data Recorder reads any pluck-type VW sensor from any manufacturer.

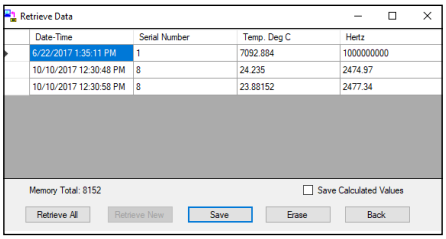
Simple Operation: Learn how to use the VW Data Recorder in just a few minutes. Most operations are performed by pressing a single key. Data retrieval is just as easy.

Reliable: Readings are stored in secure, non-volatile memory that keeps data even when batteries are fully discharged.

Spreadsheet Friendly: Logger Manager software retrieves readings and from the logger stores them in ASCII file, ready to open and process with your spreadsheet program.

No Setup: The VW Data Recorder is always ready to use. There are no sensor lists or calibration factors to load.

No Special Parts: The VW Data Recorder uses standard cables and batteries. Built-in terminals eliminate the need for a jumper cable. The serial interface cable can be replaced at any computer store, and the standard D-cell batteries eliminate the need for a charger.



Retrieving Readings with Logger Manager Software

VW DATA RECORDER

VW Data Recorder. 52613500

The VW Data Recorder includes batteries and an interface cable.

Sensor Compatibility: Reads any pluck-type vibrating wire sensor that operates between 450 and 6000 Hz. Also reads thermistor and RTD temperature sensors.

Range: 450 to 6000 Hz.

Resolution: 0.1 Hz.

Accuracy: ±0.1 Hz.

Temperature Measurement: -20 to 120 °C with ±1°C accuracy.

Displayed Units: Hz, Hz^2, microstrain, degrees C. Microstrain units are dedicated to VW spot-weldable strain gauge.

Sensor IDs: Stored readings are identified by date, time, and sensor ID, which is a number between 0 and 31. User assigns ID when saving a reading.

Memory Capacity: 8000 readings with ID, date, and time.

LCD: 2 line x 20 character, high contrast LCD with extended temperature rating.

Controls: On/Off switch with auto-off timer, keypad with two keys.

Connectors: Panel-mounted terminal for sensor cables, DB9 connector for serial interface cable.

Interface Cable: Included part 50306869 is a modem-type serial interface cable with DB9 connectors on either end.

Batteries: Two 1.5 volt alkaline D-cells provide about 60 hours of continuous use at 20 °C.

Environmental Limits: -20 to 50 °C.

Dimensions: 235 x 190 x 108 (9.25 x 7.5 x 4.25").

Weight: 1.5 kg (3.3 lb.).

LOGGER MANAGER SOFTWARE

Logger Manager. . . . . Download

Logger Manager software can be downloaded from www.slopeindicator.com.

System Requirements: Windows computer with serial port. If no serial port is available, a USB to serial adaptor is required.

Settings: Synchronize recorder's internal clock with PC or specify different date and time; set default sweep frequency; set default type of temperature sensor.

Data Retrieval: Choose to retrieve all readings or a selected range of readings. Readings are stored in ASCII format ready for import into a spreadsheet. VW readings are stored in Hz or Hz^2. VW spot-weldable strain gauge readings are stored in microstrain or Hz. Temperature readings are stored in degrees C.

OPTIONAL JUMPER CABLES

Jumper to Terminal Box 52613557
Jumper with Alligator Clips 52613550

Jumper to terminal box is required if sensors are terminated at universal terminal box 57711600. Approximately 2 m (6') long.

Jumper with alligator clips is useful for locations where the signal cable from the sensor is not easily connected to the terminals on the panel. Approximately 2 m (6') long.

TERMINAL BOXES

Terminal Box for 6 sensors 57711606
Terminal Box for 12 Sensors 57711600
Terminal Box for 24 Sensors 97711624

Provides rotary switch for selecting sensors. Small 6-sensor box measures 240x190x120 mm (9.5 x7.5x 4.75"). 12 and 24 sensor boxes measure 290 x 345 x 135 mm (11.5 x 13.5 x 5.25").

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