



VEEDER-ROOT SERIES 2400 CHART RECORDING TACHOGRAPH

KEY FEATURES

- EASY TO READ DISPLAY
- ISO RADIO SIZE
- AUTOMATIC
- LOW POWER
- MICROPROCESSOR CONTROL
- EVENT & ENGINE REVS RECORDING
- BATTERY BACKED CLOCK
- SELF DIAGNOSTIC
- INDUSTRY STANDARD CHARTS
- OVERSPEED SIGNAL OUTPUT
- "IGNITION ON" RECORDING
- CANBUS INTERFACE
- SPEEDOMETER OUTPUT

The recording unit is housed in an ISO standard radio sized enclosure with a mechanical drawer for mounting charts, LCD front panel display and electronic control buttons. Options for 1 day, 7 or 8 day, 1 or 2 driver are available

Microprocessor Control

The 2400 tachograph utilises an advanced low power microcontroller for increased programming and function capability.

Sender Compatibility

The 2400 operates from the Veeder-Root 4 Wire 8 pulse sender (European dual channel type), comparable competitor units and

encrypted or non-encrypted proximity senders.

12V or 24V Operation

The 2400 is available for either 12 or 24 volt supply.

Battery Backed Real Time Clock

Universal time is stored for an indefinite period in the tachograph if external power is removed.

Self Diagnostic

Code detail such as time and frequency of occurrence are accessible.

Power Interrupt / Pulser Disconnect

The 2400 fully detects signal and power interrupt in the sender cable, and power interrupt to the tachograph.

Charts

The 2400 operates with industry standard circular tachograph charts in 1-day, MPH version only (7-day and 8-day stacks for MPH vehicles require customized quote).

Unique Engine Speed / Event Recording

A fourth trace is available as a programmable option. This trace records levels of engine speed in bar graph format on the front of the standard driver chart. Alternatively it can be used to record one or two events with the ignition On or Off for up to 24 hours.

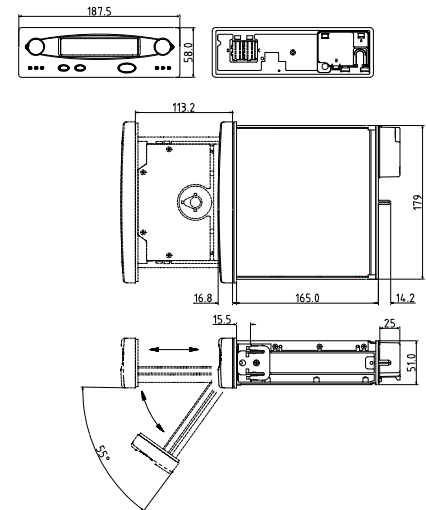
'Ignition On' Recording Function

Ignition On is indicated by a broad zero speed trace.

Ease of Calibration

The 2400 is programmed by use of a MKII Programmer.

Dimensions



Speedometer Output

This output can be configured to match the requirements of the vehicle.

Approvals

Fully complies with current EU tachograph legislation 3821/85 and all amendments to date.

Distribution Network

Veeder-Root specialist installation centres equipped and fully trained to install, calibrate and service tachographs on any vehicle are located throughout the world.

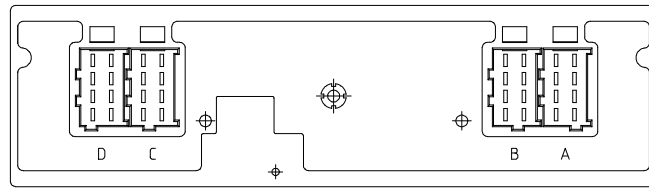
Superior Warranty

All Veeder-Root 2400 Tachographs carry a full 12 month warranty with no distance limitation.

VISIT US ON THE WEB AT www.zepco.com

508 North Central Expressway Richardson, Texas 75080
Toll Free 800.527.4305 Voice 972.690.1052 Fax 972.690.1061

Rear Connector Arrangement



PIN	FUNCTION	PIN	FUNCTION
A1	Permanent Power	B1	+ve supply to speed sender
A2	Illumination Supply	B2	Battery negative to speed sender
A3	Ignition Supply	B3	Signal #1 from speed sender(1)
A4	CAN HIGH	B4	Signal #2 from speed sender(2)
A5	Battery negative	B5	Dual ratio rear axle signal
A6	GROUND	B6	Speed (v) pulse output (3)
A7	CAN GROUND	B7	Speed (v)-pulse output
A8	CAN LOW	B8	4 pulses per metre output
PIN	FUNCTION	PIN	FUNCTION
C1	+ve supply to sender	D1	Event input 1
C2	Sender supply return	D2	Event input 2
C3	Revs signal (alternator W-contact)	D3	Remote status switch common line
C4	Revs signal (alternative signal)	D4	General warning output
C5	CAN HIGH	D5	Overspeed output (3)
C6	CAN GROUND	D6	Speedometer output (3)
C7	CAN LOW	D7	K-line, KWP 2000
C8	Internal resistance to CAN HIGH	D8	Serial data output

- Notes:** (1) - Real time signal from the speed sender.
 (2) - Complementary or encrypted data channel to the sender.
 (3) - Where possible this output can be configured to match the requirements of the vehicle.

Speedometer: A Veeder-Root unit is available for fitting in standard 140 mm aperture. May be supplied with custom bezels and graphics as used on current tachographs. Other fascia designs are possible in line with OEM requirements including provision as part of an integrated instrument panel.

Integral odometer trip option.

