

Traffic Data Logger (TDL-500) Weigh-In-Motion

MANUFACTURER AND VENDOR INFORMATION

Effective Date: February 29, 2000

Manufacturer name: Truvelo Manufacturers (Pty) Ltd.

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PRODUCT NAME/MODEL NUMBER: Traffic Data Logger (TDL-500) Weigh-in-Motion

FIRMWARE VERSION/CHIP NO.: N/A

SOFTWARE VERSION NO.: Version 4.12

GENERAL DESCRIPTION OF EQUIPMENT: Capacitance mat weigh-in-motion system.
Consists of electronics (TDL-500), Series 8 weight sensor, and inductive loops

SENSOR TECHNOLOGY AND CONFIGURATION: Capacitance mat (1/3" x 71" x 19") weighing 66 lbs.

SENSOR INSTALLATION: Temporary installation on surface of pavement or permanent installation in pavement surface.

INSTALLATION TIME (Per Lane): Temporary: 15 min/lane
Permanent: 2 hr/lane

INSTALLATION REQUIREMENTS: 200' smooth approach sensors and 100' departure from sensors

MAXIMUM NUMBER OF LANES MONITORED SIMULTANEOUSLY: 4 lanes

PRODUCT CAPABILITIES/FUNCTIONS: 6-digit location code, date, time, lane, axle weight, axle spacing, speed, length, FHWA class, ESAL, wheel base, 512KB to 8MB battery backed-up memory, 36,000 to 650,000 individual vehicle records, option of a memory card that stores data and can be taken into an office to a computer.

RECOMMENDED APPLICATIONS: Weight data collection and vehicle screening at weight enforcement station

POWER REQUIREMENTS (watts/amps): 6-volt internal battery (rechargeable from 12-volt battery, commercial power or solar array)

POWER OPTIONS: See above

CLASSIFICATION ALGORITHMS: In accordance with the FHWA [Traffic Monitoring Guide](#)

TELEMETRY: Available by adding modem and telephone line

COMPUTER REQUIREMENTS: Compatible PC

DATA OUTPUT: See product capabilities

DATA OUTPUT FORMATS: ASCII or Binary

SUPPORTING DATA BASE MANAGEMENT SYSTEM: N/A

EQUIPMENT AND INSTALLATION COSTS (One-lane and four-lane):

	Temporary		Permanent	
	1 Lane	4 Lane	1 Lane	4 Lane
Equipment costs	\$12,000	\$30,000	\$13,000	\$34,000
Installation costs	\$1,000	\$3,000	\$3,000	\$8,000

STATES CURRENTLY USING THIS EQUIPMENT:

<u>Country/State</u>	<u>Contact name</u>	<u>Telephone number</u>
USA/Alabama	Charles Turney	(334) 242-6393
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USA/Michigan	Jim Kramer	(517) 322-1736
USA/North Carolina	Jerry Blackwelder	(919) 250-4094
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