Compact Bicycle Piezo

KEY FEATURES

▶ **Turn-key battery/solar powered bicycle counting**

▶ **Measures the direction of travel**

▶ **Seamless data transmission via 3G/4G**

▶ **Android App and Bluetooth support for easy setup**

▶ **Automatic calibration for ease of use**

The Next Generation in Cycle Counting

With the launch of the Compact Bicycle Piezo, TagMaster introduces the latest generation of technology for bicycle counting into the marketplace for permanent bicycle counting. The system is perfect for obtaining trends over time and allows for the comparison of bicycle trips over consecutive months, seasons, or years. Real-time communication provides instant data on bicycle users to understand the potential impact on services and infrastructure.

The Compact Bicycle Piezo uses piezo sensors to precisely analyse the piezoelectric output profile of each bicycle using advanced signal processing. The unit measure the axle count, speed, and wheelbase for accurate counting. The system is ideal for deploying on bicycle paths and shared lanes with pedestrians and is an easy to use stand-alone system utilising battery or solar power options.

The Compact Bicycle Piezo can automatically transmit the traffic data via CSD/GPRS/3G/4G to a host. The unit will control when the modem is enabled to reduce power consumption and can be configured to act as a server or client depending upon which is best suited to the customers' requirements. The unit has a built-in calibration process that will adjust the piezo settings automatically to achieve the best accuracy for bicycle detection.

The unit has Bluetooth for installation and configuration. It is supported by EasySetup, a modern and very well-designed Android app for setup. Alternatively, the COLLECT software provide a simple user interface for the configuration and management of the device. This provides all the tools needed for site installation and commissioning, site validation and fault diagnostics as well as manual data collection if required.

The Compact Bicycle Piezo is compatible with all TagMaster Traffic Monitoring software products and is UTMC compatible in conjunction with the Catalyst. The middleware EasyData offers a Rest API running as a Docker image.

PART NO. INFORMATION	DESCRIPTION
10768, Compact Bicycle Piezo	Compact with 8 inputs for Piezo

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TECHNICAL INFORMATION

Sensor Inputs Supported	:	8 piezo sensors
Sensor Gain	:	Adjustable
Tracking	:	Automatic background tracking
Adjustable Threshold	:	Manual or automatic
Class Schemes	:	CA11, CYCLE2
Control Lines	:	4xI/O and 2 Analogue
Speed Accuracy	:	Bicycle +/- 3% at a 90% confidence
Wheelbase Accuracy	:	Bicycle +/- 10% at 90% confidence
Count Accuracy	:	Bicycle Typically >95%
USB	:	Type A (PC)
Serial	:	RS232 up to 115200 baud
IP Protocols	:	TCP/IP, UDP/IP, SNMP, DNS, DDNS, HTTP
Time Updates	:	SNTP or Custom Protocol
Simultaneous Connections	:	Yes
Data Storage	:	SD, 4GB, typical 100,000,000 vehicles
High Performance	:	ARM7 Processor
Logging Resolution	:	Speed: 0.1km/h, length:1cm
Arrival Time Resolution	:	1/100 or 1/10 s
Temperature	:	-40°C to +85°C
Power Supply	:	6V+2x 3V solar inputs or 12V+1x 12V solar input
Logging Supported	:	Historical binned & VBV, Real-Time VBV, Real-Time statics
SW Support	:	EasySetup Android App and/or Collect PC application for configuration and setup. EasyData or Catalyst for data collection and system integration.
Remote Communications	:	CSD, GPRS, 3G, 4G communications
EMC	:	European Standard: EN50293: 2000 Electromagnetic compatibility - Road traffic signal systems EN 55022: 2006/EN 610000-3-2: 2006/EN6100-3-3/A2: 2005/EN 6100-4-2/A2: 2001/EN 6100-4-3/A1: 2008/EN 61000-4-4: 2004/EN 6100-4-5: 2006/EN 6100-4-6: 2007/EN 6100-4-8: 1993/EN 61000-4-11/A1: 2001/HD 6338 S1: 2001
Radio	:	European Standard: ETSI EN 300 330-2 V1.3.1: 2006 Electromagnetic compatibility and radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9kHz; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive
Safety	:	European Standard: EN 60950-1: 2006 Information technology equipment – Safety

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