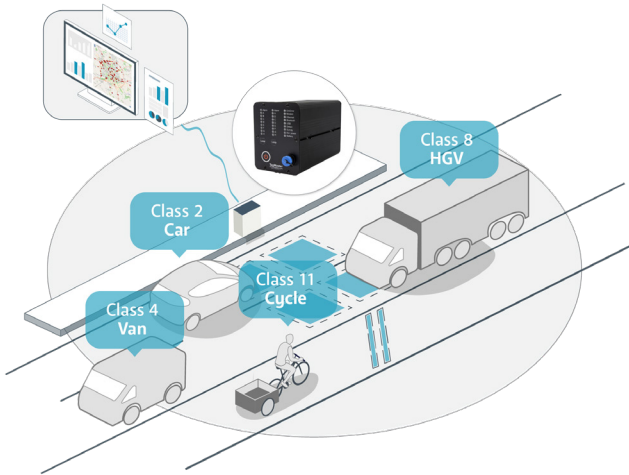# Compact PLUS

Next generation of vehicle counting and classification

KEY FEATURES

▶ **Small size battery/solar powered vehicle counting**

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

▶ **Up to maximum 16 sensor inputs**

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

▶ **PoE (Power over Ethernet)**

The Next Generation in traffic monitoring

With the launch of Compact PLUS, TagMaster introduces the latest generation of technology into the marketplace for traffic monitoring.

The Compact PLUS has been specifically aimed at the traditional count classifier requirements. Capable of running multiple survey types simultaneously, with provision for inputs of up to 16 inductive loops, the Compact PLUS can handle the traffic monitoring requirements in a simple, small, and easy to use stand-alone system utilising 3G/4G communications with battery or solar power options. PoE is also built-in as an alternative power option.

Compact PLUS can also be used with loops for bicycle counting. Additionally, it can be connected to existing installations of CORE cycle loop systems from CA Traffic for bicycle counting. The device is fully IP66 compliant while SIM card and memory card are still easily accessible.

The unit has Bluetooth for easy installation and configuration. Smart security is implemented to ensure the high level of security that is a cornerstone of the TagMaster products and combine this with the easy-of-use that is expected. A physical paring (requiring access to the padlock of the equipment) is always used when establishing a connection the very first time. Later use of a Bluetooth connection with the same device is done via a unique password in the background, without requiring any specific user interaction.

It is supported by EasySetup, a modern and very well-designed Android app for setup. This provides all the tools needed for site installation and commissioning, site validation and fault diagnostics as well as manual data collection if required.

Compact PLUS is compatible with all TagMaster Traffic Monitoring software products and is UTMC compatible together with Catalyst. The middleware EasyData offers a Rest API running as a Docker image.

PART NO. INFORMATION	DESCRIPTION
201010, Compact PLUS	Inputs for 8 Loop
201040, Compact PLUS	Inputs for 16 Loop

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Sensor Input Characteristics

Sensor Inputs Supported	:	8/16 loop sensors (Including legacy CORE loop right angle trapezoid shape)
Sensor Maximum Feeder	:	300m
Sensor Inductance Range	:	80-350μH
Sensor Frequency Control	:	50-100KHz
Adjustable Threshold	:	Manual or automatic
Class Schemes	:	EUR6, CA10, CA11
Volume Accuracy	:	>99% at a 95% confidence
Speed Accuracy	:	+/-3% at a 95% confidence
Length Accuracy	:	+/-5% at a 95% confidence
Class & Count Accuracy	:	Typ. >95%
Logging Resolution	:	Speed : 0.1km/h, length:1cm
Arrival Time Resolution	:	1/100 or 1/10 s
Modes	:	VBV or binned logged on device or VBV sent real-time to server

Electrical Characteristics

Power Supply	:	Battery 6/12VDC, Solar 15-26VDC, PoE IEEE 802.3af
Power Consumption	:	Min 150mW, max 700mW

Mechanical Characteristics

Weight	:	1.65 kg
Dimensions (LxWxH)	:	212x103x142 mm (Including connectors 252x103x142 mm)
Material	:	Aluminium
Coating	:	RAL9005 Black
Water & Dust Protection	:	IP66
Connectors	:	Ethernet, M12-4 (power), M12-17(loop), RP-SMA, SMA, Mini USB
Operating & Storage Temperature	:	-40°C to +85°C

Security, Environmental and Technical Certifications

Homologation	:	EN 62368-1, Electrical Safety General
		EN 60950-22, Electrical Safety Outdoor
		EN 62368-3: 2020 Electrical Safety
		EN 55032: 2015, EN 61000-3-2: 2019, Emissions
		EN 55035: 2017, EN 61000-3-3: 2013, Immunity
		EN 301 489-1: v2.2.3, Immunity
		EN 301 489-17 v3.2.4, Immunity
		IEC 60068-2-6 Fc, Sine
		IEC 60068-2-27 Ea, Shock
		IEC 60068-2-64 Fh, Vibration
		IEC 60529 2013 IP66
		UL94 HB, Flammability
		2002/95/EC, 2011/65/EU, 2015/863, RoHS/RoHS2/RoHS3
Time Synchronization	:	SNTP or Custom Protocol

Data Input and Output

TCP/IP	:	Yes
Ethernet	:	10/100Mbps Ethernet interface, PoE+
Protocols	:	TCP/IP, UDP/IP, SNMP, DNS, DDNS, HTTP
Modem	:	3G/4G
Data Storage	:	SD, 4GB, typical 4,000,000,000 vehicles
SW Support	:	EasySetup Android App for configuration and setup. EasyData or Catalyst for data collection and system integration

Due to TagMaster's continuous effort to develop the products in response to customer needs, the above specifications are subject to change.

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