

# MetroCount<sup>®</sup> 5700

## Configurable Roadside Unit

The MetroCount 5700 builds upon the ultra-reliable and powerful MetroCount 5600 design, with unmatched versatility...

The MetroCount 5700 is a four-input Roadside Unit, arranged as two channels. Each channel can be configured as:

- Time-stamping, for class, speed and volume.
- Binned counts, of 1, 5, 15 or 60 minutes.
- Analog time-series, with two voltage ranges.

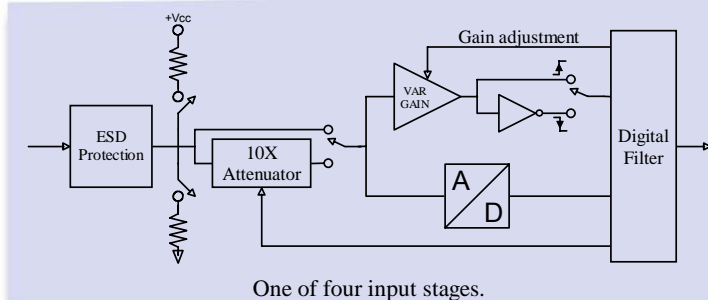
With external sensors, the MetroCount 5700 can be used for portable applications, or simply slot the unit into existing or new permanent sites.

The MetroCount 5700 supports a variety of sensors:

- Pneumatic air sensors.
- Piezo-electric sensors.
- Contact closure or opto-isolator.
- Sensors with pulse output.
- Analog voltage.



The key to the MetroCount 5700's versatility is a highly flexible input stage...



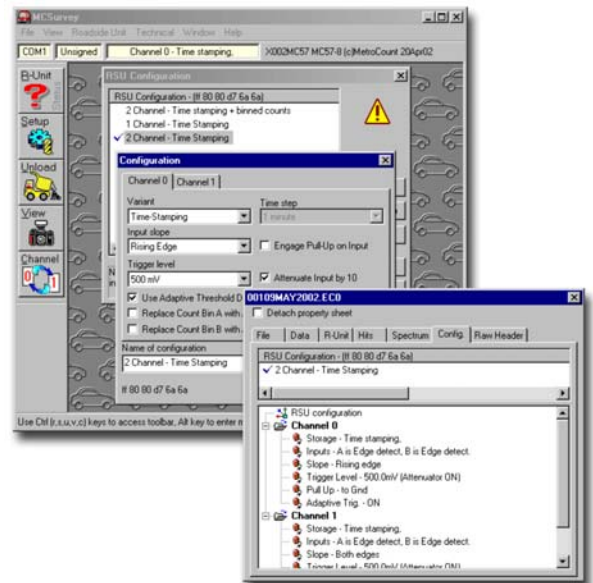
Each channel is software configurable, and features:

- Peak detection with adaptive threshold.
- Rising or falling edge detection.
- Adjustable sensitivity.
- Adjustable digital debounce filtering.
- Internal pull to supply or ground.
- Protection to 8kV ESD or >300V continuous.

The MetroCount 5700 integrates seamlessly into the MetroCount Traffic Executive environment...

Configuring the MetroCount 5700 couldn't be easier:

- All features are field programmable, using a mobile PC.
- Compile a database of favourite configurations.
- Configurations can be locked, preventing accidental change.
- Setup each channel independently, using the intuitive MTE interface.
- Configurations tracked in data reports.
- Data types can be mixed in Event Count reports.
- Convert time-stamp data to binned counts.



**PRELIMINARY**

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## Configurable Roadside Unit

Technical Specification	
Operating Temperature Range	-10C to 60C
Operating Voltage	6 - 12 volts. Protected to 40v and supply reversal
Operating Current	Less than 1.9mA, Typically 1.6mA
Idle Current	Less than 80uA, 55uA typical
Supplied Battery	Pack of 4 D-cells, Alkaline
Operating Life	About 290 days with standard pack
Number of Channels	Two independent
Inputs per Channel	2
Storage	Either time stamped or binned
Total memory	2Mbyte (memory is split if both channels are active)
Time-stamp resolution	Less than one millisecond
Bin Width	One, Five, 15 or 60 minutes
Bin Size	Max count 65534 (16-bit)
Maximum Defer Time	Ten days in time stamp mode, disabled in Bin Mode
Power Saving	Unit drops to idle state if no triggers occur for one week (disabled in Analog Mode)
Analog Input Range	Lo-Range 0-2.5V or Hi-Range 0-25V
Analog Bandwidth	<10Hz
Analog Accuracy	+/-1% of full scale
Analog Resolution	256 levels (8-bit)
Trigger Types	Rising Edge, Falling Edge, Both edges
Trigger Levels	Lo Range - 25, 50, 75, 100 millivolts or Hi-Range 250, 500, 750, 1000 millivolts
Trigger Accuracy	+/-5% of trigger level
Digital Debounce	5mS to 300mS
Input Bias	Weak pull-up to 5V on Hi-Range, 2.5V on Lo-Range or pull-down to ground
Input Impedance	1 MOhm on Lo-Range, 500 KOhm on Hi-Range
Impedance Accuracy	+/- 5%
Reference	All inputs share a single common point
ESD immunity	CE 8Kv transient
Maximum Input	300V continuous
Maximum Count Rate	200Hz burst, 100Hz sustained (each channel)
Minimum Pulse Width	100uS
InterChannel Crosstalk	>30dB

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