



# GW-400 Railway Series

## Communication Gateway

## INTRODUCTION

The GW-400 Communication Gateway is an onboard counting computer that works together with the DA-400 sensor series to create a highly accurate and precise Automatic Passenger Counting (APC) system.

The ultra-compact GW-400 is fully autonomous or can be easily connected to other existing onboard computers and TCMS. Its built-in power supply can adapt to a wide range of voltages.

These counting computers are installed inside the vehicles. At each station, they receive the signals from the DA-400s, transform them into counting data, which are then stored in the GW-400s' memory until they receive a download command.

The data is usually transferred, directly from the GW-400 via a wireless module to the ground data analysis server. This saves on:

- Cabling costs
- Installation time

## APPLICATION

In brief, the GW-400 records the following data:

- "In" and "Out" counts per sensor, per door at each stop
- Time of arrival and departure at each stop
- Stop location and distance (with GPS option)
- Distance (if odometer signal available)
- Time of passage in front at each station without vehicle stop (virtual signpost)
- Speed of door opening and closing
- Detailed diagnostic information on sensors,
- High sensitivity GPS, door signals, system integrity, etc.

Detailed diagnostic information is coupled with our diagnostic software package to allow an efficient fleet status analysis. Diagnostic information is recorded in the system and the GW-400 can send warning or error messages to onboard computers or to a central computer.

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### FEATURES

#### Design

- Accuracy between 97.5% to 99.5% has been proven many times without using any correction factors
- Very compact
- Low power consumption: 5-7 W typically
- Data is safely stored permanently in flash memory that can record between 10 to 40 days of data.
- Integrated power supply adaptable to any voltage source. Will not be perturbed by the electrical environment of a train
- May be connected to up to 9 sensor elements and up to 4 other signal sources from the vehicle
- Installation requires minimal downtime: quick installation with bolt-in design
- Remote diagnostics and software upgrades
- Railway standard EN50155/IEC61373/EN45545-2

#### Options

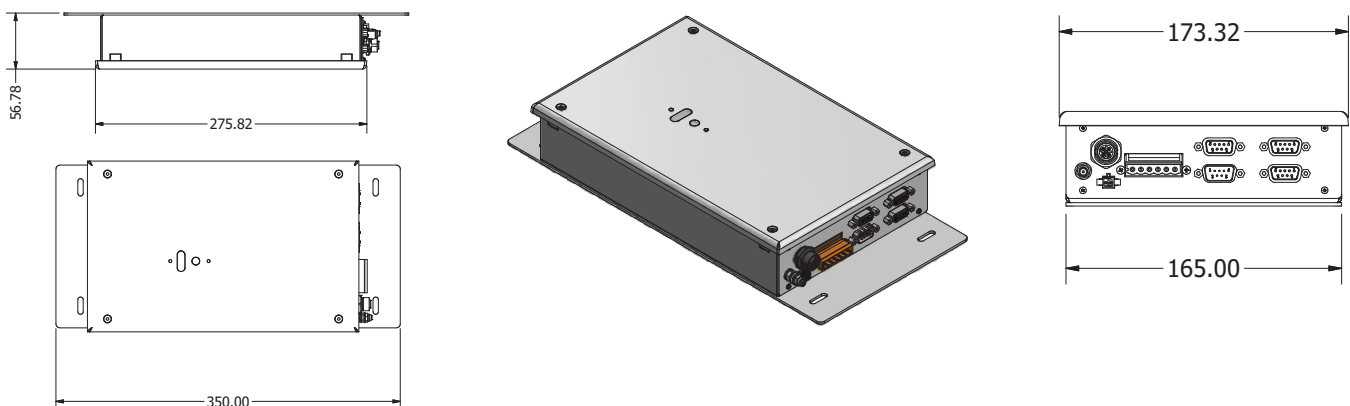
- New generation of high sensitivity GPS
- Customized mounting plate for easy installation in restrictive space

#### Connectivity

- Significantly reduced cabling
- No connection to the door system required if using integrated optical door detection of DA-400
- External I/O can be used to connect to the door switch or signal, odometer or other inputs from other systems
- Interface to onboard computer using customised or industry standard protocols
- Automatic download capacity

### TECHNICAL DIMENSIONS

(Ethernet model shown)



For more information regarding our technology and our most recent achievements, please **contact us**.

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