

## AG 400

### Access gateway for wireless and wired sensors.

Provides enhanced sensor  
capacity for Euroscan MX2.



The ORBCOMM® AG 400 access gateway is a compact, rugged gateway that enables enhanced support of wired and wireless sensors for the Euroscan MX2 temperature recorder. The AG 400 connects directly to the MX2 and enables enhanced visibility and quality control for the refrigerated transportation market. The AG 400 supports both temperature and door sensors.

#### Sensors

**Temperature:** Temperature sensors allow the monitoring of cargo temperature independent from the integrated truck or trailer refrigeration unit, meeting regulatory requirements. Temperature can be monitored in different compartments of the cargo area, providing more granular temperature monitoring. This helps ensure the integrity of temperature-sensitive cargoes such as perishable foods and pharmaceuticals as they move along the supply chain.

**Door:** Door sensors detect door opening and closing, enabling fleet operators to know if the cargo area is being accessed as scheduled and react quickly to unexpected openings.

#### Capacity

The AG 400 supports up to a maximum of 8 sensors. When wired sensors are used in combination with wireless sensors, a maximum of 5 wireless sensors are supported.

#### Simple Installation

The AG 400 is typically installed in trailers or the cargo box of straight trucks and wired directly to the Euroscan MX2. The AG 400 is configured using the MX2's installation interface.

**Enhanced support for  
wired and wireless  
sensors**

**Supports up to eight  
sensors simultaneously**

**Supports temperature  
and door sensors**

**Simple installation**



## Supported Sensors

### Wireless

- TS 300 Temperature Sensor ST100643-001
- DS 300 Door Sensor ST100547-001

### Wired

- Euroscan Temperature Sensor
  - » 0.1 Degree Celsius Temperature Resolution
  - » 009.000.5106 (6 meters)
  - » 009.000.5115 (15 meters)
  - » 009.000.5122 (22 meters)
- 0.2 Degree Celsius Temperature Resolution
  - » 009.000.5006 (6 meters)
  - » 009.000.5015 (15 meters)
  - » 009.000.5022 (22 meters)
- 0.2 Degree Celsius Temperature Resolution with Connector
  - » 009.000.5103 (3 meters)
- Euroscan Door Sensor
  - » Doors that frequently open and close 009.000.0060
  - » Doors that normally remain closed 009.000.0061
  - » Backdoor 009.000.0050

## Compatibility

- ORBCOMM Euroscan MX2

## Environmental

- Operating Temperature: -40 °C to +85 °C
- Accuracy: ± 0.5°C from -40 °C to +85 °C
- Dust and water ingress: IP67
- Vibration: SAE J1455 (Sec 4.9.4.2 figures 6-8); and MIL-STD-810G (Sec 514.6, figure 514.6C-1)
- Shock: MIL-STD-810G (Sec 516.6, Procedure I, section 2.3.2c)
- Thermal Shock: SAE J1455 (Sec 4.1.3.2)

## Connector

- Chogori 12pin

## Electrical

- Input voltage: 9 to 32V; Load dump protection: +202V; SAE J1455 (Sec. 4.13)
- Power Consumption (typical average @12V DC, 22°C): 6mA

## Communications

- Bluetooth Low Energy (BLE) version 4.0 (Low power, short range protocol using 2.4GHz band)
- RS-232 serial connection

## Bluetooth Wireless range

- Maximum 100 meters

## Certification and compliance

- CE Mark:
  - » EN 301 48917
  - » EN 301 489-1
  - » EN 62638
- FCC regulation 47 CFR 15
- Industry Canada:
  - » ICES-003
- ECE E13 E-mark Certification
- RoHS
- EN 12830:2018-10<sup>1</sup>
- WELMEC 7.2<sup>1</sup>
- GAMP 5<sup>1</sup>

1 – When used in combination with the MX2

## Mechanical

- Dimensions: 115mm x 89mm x 40mm
- Weight: 160 g

## Ordering Codes

- AG 400 and cable: 105.001.0001
- Separate cable: ST100915-001

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