

# Mobilaris

## Vehicle Tag 466C

### User Manual

**Compact and reliable equipment tag for rough environments**



# Mobilaris Equipment Tag

Rugged tag for fixed installation in vehicles and equipment with 12/24 volt power supply.

## DESCRIPTION

The tag is embedded in a protective case to allow discrete mounting in vehicles and equipment. It communicates with Mobilaris Mining Intelligence to provide location as well as other types of sensor data.

The 2-colored LED indicates the following:

Operational status:

Green = CCX communication ongoing

Red and green = Connecting to access point

### Power-on Self-test:

Blinks	Green	Red	
1st	Power supply	OK	Low input power
2nd	Magnetic field noise level	OK	High interference
3rd	Error	OK	Broken tag
4th	System failure	OK	Configuration problem

## MOUNTING INSTRUCTIONS

The tag should either be screwed or mounted using adhesive pads on the dashboard or windshield. The tag must be clearly visible through the windshield.

Consider the following during mounting:

- Maximum Torque, 1 lb ft / 1.5 Nm
- Screw, ø 1/8" - 5/32" / 3-4 mm
- Do not tighten too hard - the tag should not bend
- Do not place the tag too close to other electrical appliances that generates magnetic fields (See self-test 2)

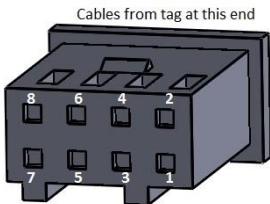
Avoid mounting the tag closer than 1 3/16 " (30 mm) to metal surfaces since it may reduce the range of the WiFi radio and Exciter detection.

## TECHNICAL DATA

<b>WiFi</b>	IEEE 802.11 b/g/n
<b>Exciter Detection</b>	125 kHz Craycom
<b>Sensors</b>	3-Axis accelerometer Temperature sensor
<b>Dimensions</b>	106x65x15 mm
<b>Operational Temperature Range</b>	-22°F to 185°F (-30°C to +85°C)
<b>IP (Ingress Protection) Ratings</b>	IP65
<b>Power Supply</b>	12/24VDC (9-29VDC)
<b>Power Consumption</b>	2-600mA (depending on the mode)
<b>Optional</b>	Possible connections: • 2 input push button • 2 generic inputs • RS232 (115200 N 81)

## CABLE CONNECTOR

1 Red	+12V/+24V
2 Black	Ground
3 Orange	(button 1)
4 Yellow	(button 2)
5 Green	In A
6 Blue	In B
7 Purple	RS232 out
8 Brown	RS232 in



## FCC statements and RF exposure warning

### § 15.19 Labeling requirements.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### § 15.21 Information to user.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### § 15.105 Information to the user.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### § 2.1091 Radio frequency radiation exposure evaluation: mobile devices.

#### \* RF warning for Mobile device:

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 4cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

## IC (Industry Canada) Statement

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The term "IC: "before the certification/registration number only signifies that the Industry Canada technical specifications were met. This product meets the applicable Industry Canada technical specifications.

Le présent appareil est conforme aux CNR d'Industrie Canada applicable aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

#### \* RF warning for Mobile device:

See this link for further information <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf01904.html#s2.6>

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 4cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.