



Positioning Universal FT5000MW Under Dash Device Instructions

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Positioning

Positioning Universal FT5000MW Under Dash Device



Key Value Proposition

- Versatile, under dash device:
 - cars & trucks in single device
 - most common utility features
- Internal antennas

Applications

- ELD
- Light, Medium, Heavy Duty Diagnostics
- Leased and Rental Vehicle Recovery

Capabilities

- Motion Detection
- High Frequency Tracking
- Vehicle Diagnostics (ISO-15765, J1939)
- Ignition Detection
- Starter Disable (via relay)
- Operator ID (1-wire)

Future Capabilities

- Driver Behavior

In-cab workhorse – Apoc 20 / FT5000MW



Dimensions

6.33" x 2.6" x 1" (151mm x 66mm x 25mm)

Location

- **GPS** (multi-constellation)
- **Assisted acquisition:** 2s (via cloud)
- **Acquisition Sensitivity:** -160dBm (1)
- **Tracking Sensitivity:** -167dBm (2)

Internal Sensors

- 6-axis IMU
- System temperature
- Battery level

Internal Antennas

- Cellular
- GPS
- Bluetooth

External Connectors

- Power in (6-48VDC)
- 1-Wire
- Digital Input x4
- Digital Output x3
- CAN 2.0B x1 (ISO-15765 or J1939) RS-232
- ISO-9141 (K line for Tachometer) J1708

Global Cellular Connectivity

4G , Global Bands 2G: 850,900,1800,1900

Local Area Connectivity

BLE: 5.0 (master, slave, LE data packet length)

Operating Temperature

- **Powered:** -40°C – 70°C
- **Battery:** -20°C – 60°C
- **Charging:** 0°C – 45°C

Housing

Industrial grade Polycarbonate (PC)

Ingress Protection (IP): 4X

Certifications

FCC, IC, CE, PTCRB, RCM

Environmental

RoHS, Reach, SAEJ1455 [Thermal Shock (4), Humidity (5), Mechanical Vibration, Mechanical Shock, Electrostatic Discharge]

FCC Regulations

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,
2. this device must accept any interference received, including interference that may cause undesired operation.

This device 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 radiated 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.

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

RF Exposure Information

This device meets the government's requirements for exposure to radio waves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

ISED Notice

This device complies with Innovation, Science and Economic Development Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. this device may not cause interference
2. this device must accept any interference, including interference that may cause undesired operation of the device.

This device complies with the Canadian ICES-003 Class B specifications. CAN ICES-003(B)/ NMB-003(B)

ISED RF Exposure Statement

This device complies with ISED RSS-102 RF exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the IC RSS-102 RF exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

Documents / Resources



[Positioning Universal FT5000MW Under Dash Device](#) [pdf] Instructions
FT5000MW, 2AHRH-FT5000MW, 2AHRHFT5000MW, FT5000MW Under Dash Device, FT5000MW, Under Dash Device