Didcom Temperature Monitor® Addvance

TPM is a module designed for constant temperature monitoring sensors. The number of sensors that you can use goes from 1 to 4 for temperature and the same quantity for digital input sensors.

The digital input monitor has many applications, such as checking the compressor status or inclusive register every time that the door opens and closes to keep a better security control.

This kit helps you generate special temperature reports per unit and even per sensor, making comparison of temperature against the compressor status.

Features:

The TPM is a system controller device, where the temperature sensors and the digitals input monitors are connected. When the TPM device detects an event according to the sensor type, it sends the information through a CANbus data line, where a third-party device (usually a GPS) can be integrated to read and send the event data to a server.

The information that is received is divided by **Sensor type and Status data on the health of the device.**

In the main TPM functionality (integrated into a GPS device), each data that is processed and sent through the telemetry equipment can be referenced with value, location, and date on which the event occurred, creating large data histories linked to each sensor. In this way, the information can be analyzed and plotted on the telemetry equipment's WEB portal.

On the other hand, it is possible to identify the health of the devices with their status data.

TPM Application Example

Temperature sensors: Have control of indoor temperatures in your passenger transport or refrigerated cargo transport.

Compressor monitor: Constantly check the compressor status, considering the recorded temperatures.

Door monitor: Register every time that the door opens and closes to keep control security of the transported products.

TPM obtains the information of each of the sensors connected, the information is collected and evaluated within the same device, having some characteristics concerning the temperature monitoring functionality, it sends the temperature when it changes 1 °C, or after 15 minutes stable.

The output of TPM information is performed on a CAN communication port.

Aplicaciones

Connection with GPS Device, will make it possible to send the information remotely and immediately when generating sensor reading events or any status message of the devices themselves, the information is sent through the cellular network and deployed on the WEB platform of the GPS device. On the other hand, the information can also be sent by the TPM device on the CAN port, showing the data on visual devices as an on-board computer.

NOTE: The data generated by the DIDCOM protocol will be interpreted either by the integration of a third-party device or an on-board PC software.

Mechanical Dimensions
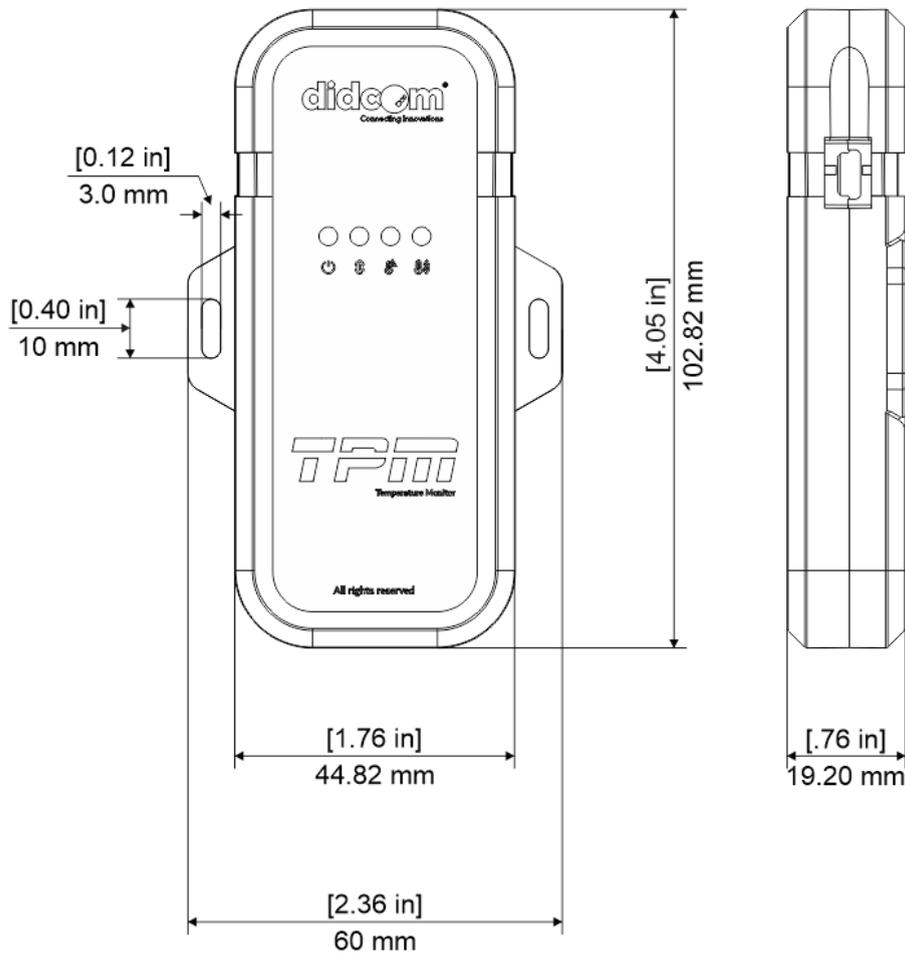
Specifications

Electric Specifications - TPM Advanced	
Operational Voltage	8 VDC ~ 36 VDC
Rated Current Consumption (12 VDC)	13 mA
SLEEP mode rated current consumption (12 VDC)	< 1 mA
Rated Current Consumption (24 VDC)	8 mA
SLEEP mode Rated Current Consumption (24 VDC)	< 1 mA
Temperature measurement ranges	-55 °C a 125 °C

TPM Addvance connection diagram (Example with GO Device integration)
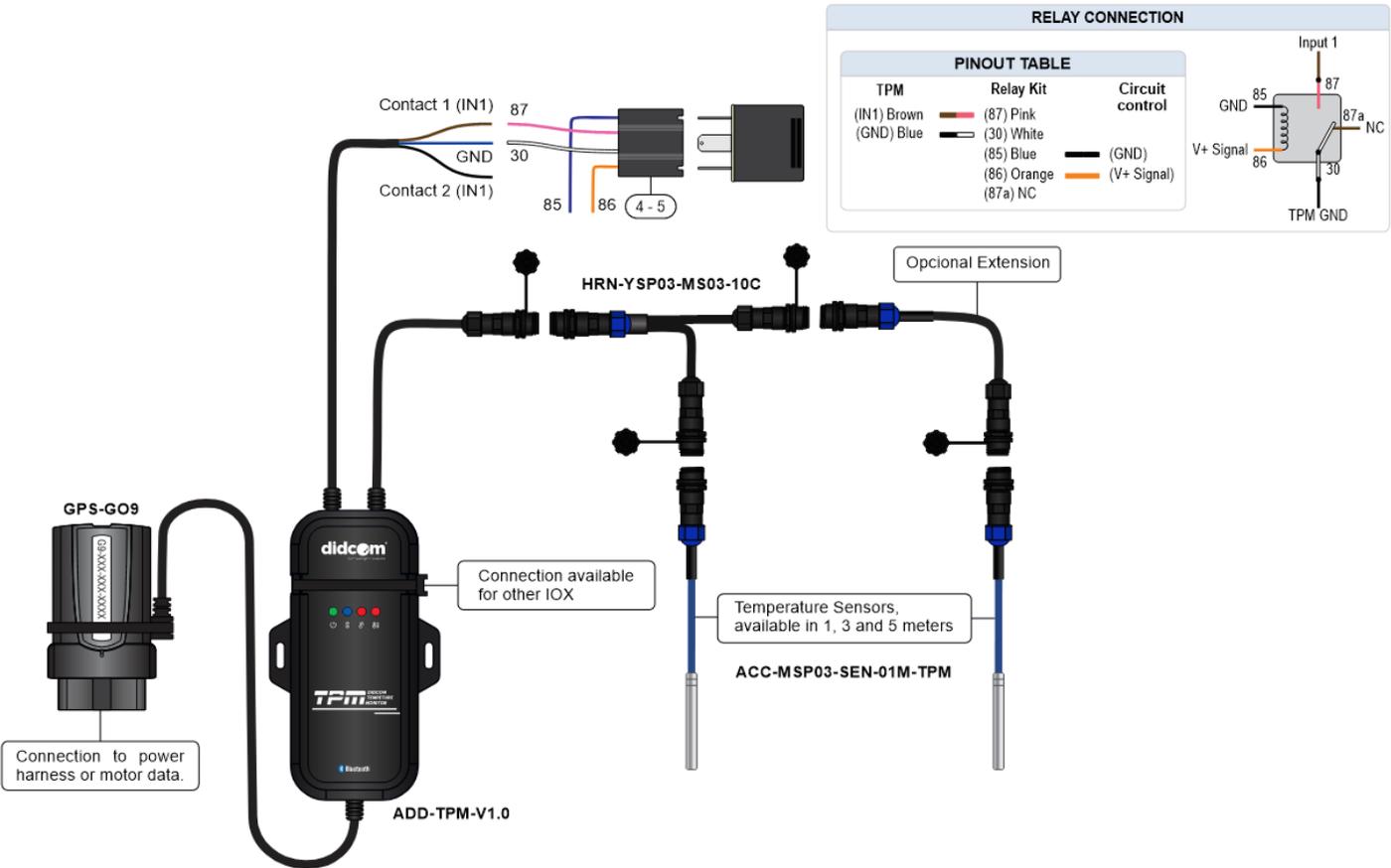
Important safety and usage information

WARNING! The devices to be installed must be firmly fastened so as not to interfere with the controls of the vehicle, such as the accelerator pedal, brake and clutch. This can be done by use of plastic straps to fix the devices, including their respective cables, along the harness and the module itself. The use of straps is essential during installation as the vibration of the vehicle can loosen the connection, indirectly causing some part of the vehicle to fail, control is lost or serious damage occurs. Inspect connections regularly to avoid accidents.

WARNING! If at any time after installing a new device in the vehicle a warning light on the dashboard comes on, or a general failure is caused, turn off the engine, remove the device and contact your dealer. Continuing to use the vehicle with any of these conditions may cause major failures to the vehicle, or cause loss of control of the vehicle.

WARNING! Devices connected to the vehicle must be kept clean, dry and free of contaminants; If this is not the case, it may present a malfunction or cause a short circuit, with the risk of accidents such as fire, damage to the vehicle or serious injury.

WARNING! Do not attempt to switch devices between vehicles where they were originally installed. Not all vehicles or connection types are compatible; Doing so could have an unexpected effect with the connection to the vehicle, even causing the vehicle to fail or run erratically, causing more serious problems to the vehicle. If you have questions about compatibility or connection between devices, contact your distributor.

NOTICE

The device does not have any type of maintenance that can be performed by the user. Only distributors or installers authorized by the company can handle special configurations, maintenance and / or repairs. If any type of violation or maintenance of these products is made without the relevant authorization, the product warranty will be voided immediately

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The information contained in this document regarding the device, features and applications is provided for the convenience of the end user and may be replaced by subsequent updates. It is the responsibility of the end user to ensure that the specified application is complied with the use of the device. DIDCOM® DOES NOT MAKE ANY MANIFESTATION OR OFFER ANY EXPRESS OR TACTILE WARRANTY, RELATED TO THE INFORMATION CONTAINED IN THIS DOCUMENT RELATING TO QUALITY, PERFORMANCE, TRADE OR FITNESS TO COMPLY WITH THE PURPOSES OF THE END USER. This document does not grant license or assignment of industrial property rights, copyrights or any other protected by intellectual property laws in favor of Grupo Tecnológico Didcom S.A de C.V.

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Company information and support.

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