

DIWICON-M

DW 828 A & DW 107 M

EXPANDED I/O FIELD TRACKING DEVICE WITH DW 107 M RFID TERMINAL

Compact and intelligent tracking device with GPRS communication

CHARACTERISTICS

- GPS Satellite Localization
- GSM/GPRS based redundant communication
- Connectible to navigation systems (optional)
- CAN interface
- Setting via WEB based interface

SPECIAL CHARACTERISTICS

- High sensitivity GPS receiver
- Integrated motion sensor
- Remote software update
- On-board flash memory
- Integrated backup battery

INDUSTRIAL QUALITY

- Operating temperature range: -25°C to +60°C
- Case meets the requirements of the IP65 safety standard



I/O FUNCTIONS AND INTERFACES

- 5 general purpose digital inputs
 - 2 dedicated inputs for Ignition and RPM
- 2 general purpose analog inputs (e.g. fuel level)
 - 2 digital outputs
 - CAN interface
- DW 107 M RFID terminal



TECHNICAL DATA

Power:	8-30 V DC
Normal mode:	60 mA (12 V DC, battery charged)
Sleep mode:	10-15 mA (12 V DC, battery charged)
Backup battery:	900 mAh backup battery with intelligent charging module
Operational temperature range:	- 25°C to +60°C
Dimensions (LxWxH):	100 x 100 x 30 mm
Reverse polarity protection:	Yes
Flash memory:	512 Kbytes

OPERATIONAL DESCRIPTION

BASIC FUNCTIONS

The DW 828 A is the optimal way to track, monitor, and control mobile objects. With the ability to monitor 5 digital and 2 analog signals and control 2 digital switches, the DW 828 A is ideal for any mobile application where remote monitoring and control is essential.

The main function of the device is the automatic communication of position, speed, RPM, ignition, and other data to the central database server.

Besides this relevant information, the DW 828 A is able to forward other specific data about the vehicle, such as fuel level and door-opening.

The vehicle data information which is sent by the mobile devices to the central fleet management server can be monitored by the dispatcher.

In addition to geographical positioning, numerous statistical and reporting functions are available to the dispatcher.

OPERATION

When the device is installed in the vehicle, the GPS receiver determines its position. At the same time, the device establishes an iWVAN (GPRS) connection and registers with the central database to which it sends the detailed information collected.

When the vehicle is not in use, the DW 828 A optimizes power consumption. The built-in motion sensor automatically detects the stationary state and switches to standby mode after a specified period of time. When the device begins to move again, object tracking automatically begins.

CAN INTERFACE

The DW 828 A can be connected to the FMS CAN interface of a vehicle. This makes it possible to collect specified SAE J1939 standard information and forward it to the server over the GPRS network for further processing. The CAN bus provides detailed information about the vehicle such as total mileage, total fuel consumption, and current fuel level.

RFID CARD

For workers on the move, the DW 107 M RFID card provides remote clock-in/clock-out and driver identification functions, allowing for expanded automatic reporting of working time and individual driving style.

SETTINGS

The operational parameter settings are easily adjusted via the web interface of the central server. These pages allow for adjustment of the network settings, the tracking and motion sensor sensitivities, stand-by mode timing, and signal button functions.

SOFTWARE UPDATE

To ensure easy upgradeability, the program memory can be remotely accessed by system engineers. The upload is done with the help of the DIWICON 9000 FWU software module.

