DATALOGIC™

Datalogic Memor™ Powered Vehicle Dock

The Datalogic Memor™ Powered Vehicle Dock allows charging the Datalogic Memor™ mobile computer battery and holding it securely in your vehicle. It also functions as a serial communication interface between a device (typically a printer or a powerscan) and the RS232 contacts on the mobile computer.

THE PACKAGE

The dock package includes the following items:

Figure 1

A) Datalogic Memor™ Powered Vehicle Dock 94A151121
B) Power Adapter Cable
C) Battery Female Adapter
D) Fuse Holder
E) Stylus Holder
F) Dual Lock™ Label

THE DOCK

Figure 2

A) Mounting Holes
B) LED Indicator
C) Dual Lock™ Label Adhesive Strip Seat
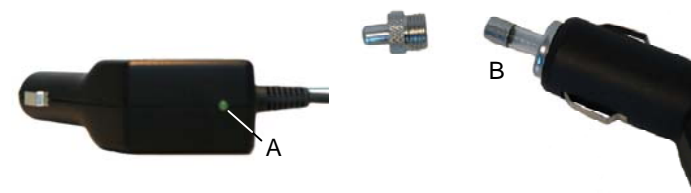D) Power Connector
E) RS232 Connector

THE POWER ADAPTER CABLE

Figure 3a   **Figure 3b**

A) Green LED   B) Fuse (2.5A 250V)

When the Power Adapter Cable is powered, the green LED lights up.

The fuse can be easily replaced by unscrewing the ring nut and removing the cap (see Figure 3b).

MOUNTING OPTIONS

The dock can be mounted on the desired surface using either the Dual Lock™ Label or the Ram Mount.

MOUNTING WITH DUAL LOCK™ LABEL

Figure 4

This procedure is suggested when mounting the dock on flat surfaces:

1. Select a mounting location allowing an easy access to the dock connector panel;
2. carefully clean the adhesive strip seat on the rear of the dock to remove any impurities that could reduce adhesion;
3. remove the protection film from the adhesive side of one of the available labels and stick it on the dock surface;
4. remove the protection film from the adhesive side of the remaining label and stick it on the vehicle surface (smooth and clean for better adhesion);
5. affix the dock to the vehicle surface.

> ⚠️ **CAUTION** *The Dual Lock™ label must be stuck at least 48 hours before the dock is submitted to mechanical stress.*

MOUNTING WITH RAM MOUNT ADJUSTABLE ARM

The Ram Mount Adjustable Arm allows wide range of rotation for the dock.
It can be mounted on any flat surface while the ball joints enable position flexibility.

1. Align the adjustable arm with the four screw holes on the rear of the dock as shown in Figure 5:

Figure 5

2. Secure the adjustable arm to the rear of the dock using the four M 4 X 25 UNI 7687 ZB screws as shown in Figure 6:

Figure 6

> ⚠️ **CAUTION** *Install only on properly grounded mobile platforms. If this dock is used on an electric vehicle, ensure that no part of the dock and mobile computer can come into contact with the vehicle chassis. Electrical discharges can develop on these vehicles, which can damage the dock and/or mobile computer.*

POWERING THE DOCK

Powering the dock/ Memor in your vehicle.

1. Plug in the supplied cigarette lighter adapter into your vehicle's cigarette lighter or 12V or 24V power source;

2. insert the Power Adapter Cable output connector:

   a) in the power port at the right bottom of the dock (see figure 7a). When the dock is powered, the green LED lights up;

   b) in the port at the bottom of the mobile computer (see figure 7b).

| Figure 7a | Figure 7b |

> ⚠️ **CAUTION** *Make sure your vehicle's output voltage is between 10V to 32V, and is capable of supporting a 2000mA current drain. If you have any concerns regarding this, refer to your vehicle owner's manual.*

> ⚠️ **CAUTION** *When the Power Adapter Cable is connected to the Memor, it is recommended not to lift the mobile computer by the Power Adapter Cable.*

Powering the dock/ Memor using the Battery Female Adapter

For connection to the vehicle power source through the Battery Female Adapter, it is necessary to prepare the power cable termination to connect the dock to the vehicle power source.

– Red wire: connect to a V+ (10 to 32 Vdc) vehicle power source;

– Black wire: connect to the vehicle ground wire or chassis ground.

In this case, it is mandatory to use the slow-blow 8A 250V (with holder) supplied with the dock.

1. Verify that the fuse is contained within the holder, then splice it to the end of the red wire of the cable. Make the distance between fuse holder and power connection point as short as possible and apply a caution label on the fuse holder.

   Once the power cable termination has been completed, it is possible to connect the dock to the vehicle power.

Figure 8

Red Wire

Figure 9

2. Plug in the cigarette lighter adapter into the Battery Female Adapter:

Figure 10

3. Insert the Power Adapter Cable output connector in the dock/Memor power port (see the previous section).

> 👉 **NOTE** *To avoid battery waste, it is recommended to connect the dock to a power connection point switched by the ignition key.*

> ⚠️ **CAUTION** *When connecting the Battery Female Adapter cable to the power connection point, ensure that it does not pass by sharp or very hot surfaces.*

BATTERY CHARGING

The dock provides battery charging for the Datalogic Memor™ when powered.

> 👉 **NOTE** *The Datalogic Memor™ will charge its installed battery when power is applied to the dock.*

INSERTING THE DATALOGIC MEMOR™ IN THE DOCK

To insert the Datalogic Memor™ into the dock, perform the following steps:

1. Slide the Memor into the dock.

2. Push downwards to insert the Memor until it is firmly seated in the dock.

Figure 11

REMOVING THE DATALOGIC MEMOR™ FROM THE DOCK

To remove the Datalogic Memor™ from the dock, grasp the mobile computer and lift it straight upwards while pushing the top of the dock backwards.

Figure 12

CONNECTIONS

RS232 Connection

Datalogic Memor™ Powered Vehicle Dock can be connected to a device (i.e. a printer or a powerscan) by means of an RS232 interface.
Connect to the RS232 port of the dock to a Win-Net Serial Cable. Once the device has been turned on, insert the Datalogic Memor™ into the dock.
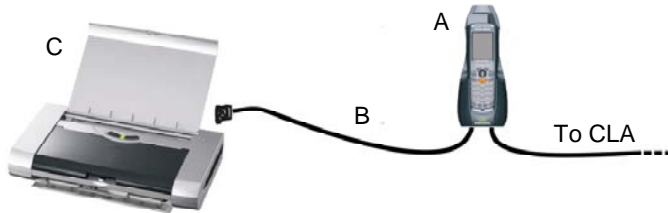

Figure 13

A) Datalogic Memor™ Powered Vehicle Dock 94A151121
B) Win-Net Serial Cable (HRS ST40x-18S-CV) 94A051022
C) Portable Printer

TECHNICAL FEATURES

Datalogic Memor™ Powered Vehicle Dock	
Electrical Features	
Power Supply	from 10 to 32 VDC
Consumption (with mobile computer)	Max. 1.15 A
Quiescent Consumption (CLA + Dock no load)	Max. 38 mA
Quiescent Consumption (CLA only no load)	Max. 32 mA
Indicators	Power on LED (green)
Charge Time	Li-Ion Battery: max. 4 hours
Communication Features	
Interface	RS232
Baud Rate	RS232 = up to 115200 b/sec
Environmental Features	
Working Temperature*	0° to +50 °C / +32° to +140 °F
Storage Temperature	-20° to +70 °C / -4° to +158 °F
Humidity	90% non condensing
Sinusoidal Vibration Resistance ** EN 60068-2-6	14 mm @ 2 to 10Hz; 1.5 mm @ 13 to 55 Hz; 2 gn @ 70 to 200 Hz; 2 hours on each axis
Random Vibration Resistance** EN 60068-2-64	Frequency Range 5-1000 Hz; acceleration RMS: 3.1 g; initial slope: 26 dB/octave 5-10 Hz, final slope: -3 dB/octave 10-1000 Hz; 1 hour on each axis
Bump Resistance** EN 60068-2-29	25 G; 6 ms; 500 up & 500 down bumps on each axis
Shock Resistance** EN 60068-2-27	30 G; 11ms; 3 shocks on each axis
Mechanical Features	
Dimensions (dock)	203 x 84 x 62 mm/ 8.12 x 3.36 x 2.48
Weight (dock)	140 g / 5.6 oz
Weight (CLA + Adapter)	180 g / 7.2 oz

* Battery must be charged at a temperature ranging from 0° to +40° C. For the GSM models the maximum recommended temperature is +35°C. At higher values the charging may slow down. When the battery is exhausted, the GSM turns off and it is not working until the battery is charged or changed.

** Only valid for mounting with Ram Mount Adjustable Arm.