

Installation Guide

Version: 6.4 (Digitax 4G) – March 2021

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 Fleet Configuration Download Key

 Fleet Password (optional)

 Driver Login (for testing)

Primary loom



Figure 1: Wiring diagram

See Appendix 2 for detailed notes on connecting a meter to SmartMove.



Secondary loom (optional)



Figure 2: Wiring diagram for Loom 2



Equipment Checklist

The SmartMove system consists of:

Components:			
1x Digitax screen and cabling			
1 x Cable Installation Loom			
1x Meter listen adapter. Allows SmartMove to connect to the meter OR share the meter with EFTPOS terminal (in listen mode).	OR OR for CabCharge Fareway meter		
1x combination GPS (Global Positioning System) and GPRS Antenna			

1x Panic Switch	
1x Mounting Bracket Kit	
Second monitor for meter (optional)	Frozo
1 x Card reader/printer (optional)	
1 x Secondary Cable Installation Loom (optional)	

Step 1 Fit Mounting bracket and antenna

Assemble the Mounting Bracket then fit the screen and the GPS/GPRS antenna. For detailed advice see Appendix 1 on page 13.

Warning: The antenna should be at least 50mm from any other GPS antenna.



Step 2 Connect primary loom

Prepare the loom by removing the securing cable ties. The end with the black serial connector should be positioned near the screen mount so they can be easily connected once complete. Run the other cables through the dash so they are available in the foot well. Never cut any unused connectors from the loom. Leave the black connector exposed so that the screen can be replaced if necessary.	
Connect the red wire to a constant 12v power source; ideally directly to the battery. Use a fuse to protect the system. Connect the black wire to ground and the blue wire to the ignition switch. (Fuse not supplied.) Ensure a quality ground connection is used. Some vehicles (including Toyota vans) require upgrade to the existing vehicle's ground strap.	
Connect the green wire to a meter output which measures 12v when engaged, and 0v when vacant. Normally this is the output that turns the tariff light on and off. SmartMove uses this to determine the availability of the taxi.	Schwidt Model G4 Taximeter



Enable Camera Alerts, Camera Alerts Notify, and Camera Type.)	
The USB socket may be used for software upgrades and should be left accessible.	
The purple wire is not currently used. It may be used as a digital output in the future.	
The grey wire is not currently used. It may be used as a digital input in the future.	
 White wire is used to control power to the dome light. It should not be used to directly power the dome light – use a relay. If necessary the operation of the dome light can be inverted with the fleet property <i>Invert Dome Light Signal</i>. 	

Step 3 Connect secondary loom (optional)



Step 4 Connect screen to looms

Once the loom is wired up, it is simply a matter of attaching the loom and the combined GPS/GPRS Antenna to the screen.	
Start by attaching the screen to the main loom. Press F6 (bottom right of screen) to start the unit. You should see the SmartMove screen after about 30 seconds. Leave the connector exposed so that the screen can be replaced if necessary.	
Attach the screen to the secondary loom if used.	
Attach the GPS antenna cable and the GPRS antenna cable to the appropriate screen sockets. Leave the two connectors exposed so that the screen can be replaced if necessary.	
Tape up the antenna connection.	
Use cable ties (or alternative method) to tidy up the cables and keep them out of the way. Often they are tied to the mounting bracket to secure the position.	

Step 5 Configure SmartMove

If the system is not already on the configuration page (shown in next box); press the Vacant Indicator (pictured right) to enter the System section.	
Select the <i>Config</i> page. Enter the <i>Configuration Download Key</i> for the fleet (set on the configuration page of the fleet management web site.	Debug Server GPS Properties Config Version About Use this page to configure the SmartMove unit for this vehicle. Enter the Configuration Key for the fleet.
Select a fleet if requested and press OK.	Debug Server GPS Properties Config Version About Select the fleet for this vehicle SmartCarAustralia ~ Ok Cancel
Enter the password, if one is required, then press <i>Ent</i> .	Debug Server GPS Properties Config Version About Enter fleet password Cancel

Select a vehicle by typing letters or numbers that form part of the registration number of the vehicle. Touch the correct line when the number required is visible in the list.	Enter the vehicle registration number or select from the list STREAK THUB TAB AND_4 Q W E R T Y U I O P A S D F G H J K L	
	Z X C V B N Numbers Clear Back Space Ok Close	
Press OK then Save Config.	Debug Server GPS Properties Config Version About You have selected 'AND_5' in fleet 'SmartCarAustralia' Save Config Cancel	
Shortly afterwards the unit should show that it is connected to the server.		

Step 6 Test SmartMove

Test the panic button. First, go to the test screen.		
The top indicator should light up whenever the button is pressed.	Panic button is: Not Pressed	

The bottom indicator should stay on if the button is pressed long enough to trigger an alarm and a warning message is sent to the base.	Alarm status is: Not Activated
The third indicator should light up to show that the computer has seen the alarm.	Alarm status is: Activated
Press the 'Reset Alarm' button to reset.	Reset Alarm
Check that a GPS fix is obtained within 12 minutes. If no fix is obtained, move the car into the open, then check GPS connection and that the cables are connected the right way around (ie. GPS to bottom).	
This step is not required for vehicles without meters. With the meter switched on but not running, the car symbol at the bottom right should show one person in the car. With the meter running the symbol should show three people in the car If the symbols are inverted the car needs to be reconfigured in the system. Set the vehicle property <i>Vehicle Inverted Meter</i> to Y or N. If the symbol doesn't change then check that the dome light goes on and off with the meter – a new bulb might be needed. If the light is working then check that the digital input line has been wired correctly.	

Appendix 1: Screen and Antenna Installation

The following illustrations and instructions come from the Digitax Technical Manual

Screen Dashboard Fitting



SMARTMOVE Installation Guide





Screen Windscreen Fitting



SMARTMOVE Installation Guide



Antenna Fitting



- 2. Remove backing tape from remaining side of the double sided mounting pad.
- 3. Apply antenna to screen.



Appendix 2: Connecting the meter

There are two connections to the meter:

- The digital line (green wire) is used to detect whether the meter is running or not i.e. the vehicle is engaged or vacant.
- The serial line with the RJ12 connector is used to collect the fare when the meter is switched to vacant.

The following sections describe how the wiring is connected for the various types of meters.

Meter	Without EFTPOS	With connected EFTPOS	
	See page	See page	
Cabcharge Fareway meter	20	n/a	
Cabcharge, not Fareway meter	n/a	22	
Martin meter	23	23	
Novax	25	26	
Schmidt Gx meter	27	28	

Cabcharge Fareway meter



The RJ12 to DB9 adapter can be supplied by SmartMove or sourced locally. One supplier is Jaycar – product PA0906.



D9 Female to RJ45 Computer Adaptor

CAT.NO: PA0906

Socket Adaptor.Please note: Unit must be assembled ...

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Shipping & Delivery Information

The wiring (for the adapter shown above) is specified in the following table.

RJ45 - 8P8C	Colour	DB9
1	BLUE	N/A
2	ORANGE	1
3	BLACK	2
4	RED	3
5	GREEN	4
6	YELLOW	5
7	BROWN	N/A
8	WHITE	N/A

Cabcharge meter with EFTPOS Terminal (not

Fareway)

Schematic				
Note: black lines represent existing cables				
With the RJ12-RJ12 modular line cable connecting the meter to the EFTPOS modem, disconnect the EFTPOS modem end and connect it to the free RJ12 port of the Inline Coupler of the Meter Listening cable.	From SmartMove From meter			
With the short RJ12-RJ12 modular line cable connected to the other end of the Inline Coupler, connect it to the EFTPOS modem.	From SmartMove Cabcharge modem			
Connect the SmartMove terminal's RJ12 meter connection to the joiner on the Meter Listen Adapter				
Set the following vehicle properties	Meter Listen2 – Listen passively (EFTPOS)Meter Protocol1 – CabchargeRequires Fare Details1 – Show fare screen (cannot cancel)(Account)2 – Show fare screen (can cancel)(Non-account)2 – Show fare screen (can cancel)			

Martin Mkx meter without EFTPOS Terminal

	Schematic	
Note: black lines represent existing cables		
Connect the RJ12 Meter Cable to COM1 of the meter breakout box		
Set the following vehicle properties on the fleet management website.	Meter Listen Meter Protocol Requires Fare Details (Account) Requires Fare Details (Non account)	 1 – Listen interactively (No EFTPOS) 0 – VTD compatible 1 – Show fare screen (cannot cancel) 2 – Show fare screen (can cancel)

d) Martin Mkx meter with EFTPOS Terminal



With the RJ12-RJ12 modular line cable connecting the Break Out box to the EFTPOS modem, disconnect the Break Out box end and connect it to the free RJ12 port of the Inline Coupler of the Meter Listening cable.		From EFTPOS terminal
With the short RJ12-RJ12 modular line cable connected to the other end of the Inline Coupler, connect it to the COM1 port of the Break Out box.		From SmartMove From EFTPOS terminal
Connect the SmartMove terminal's RJ12 meter connection to the joiner on the Meter Listen Adapter	Fre	om EFTPOS terminal
Set the following vehicle properties	Meter Listen	2 – Listen passively (EFTPOS)
on the fleet management website	Meter Protocol	0 - VTD compatible
	Requires Fare Details	1 – Show fare screen (cannot cancel)
	(Account)	
	Requires Fare Details	2 - Show fare screen (can cancel)
	(Non-account)	

Novax Leda meter without EFTPOS Terminal

Schematic				
15.40 5.80				
Note: black lines represent existing cables				
Connect the RJ12 Meter Cable to one port of the Inline Coupler. Connect the RJ12 cable from the meter to the other port of the Inline Coupler.	RJ12 cable from meter goes here			
Set the following vehicle properties	Meter Listen Meter Protocol Requires Fare Details (Account) Requires Fare Details	 1 – Listen actively (EFTPOS) 4 – Leda Novax 1 – Show fare screen (cannot cancel) 2 – Show fare screen (can cancel) 		
	(Non-account)			

The pins on the meter connector are given in the following table:

RED Meter RX	BLANK	Blue - loose	Green - loose	Orange - loose	"+ POWER IN"	White DIST PULSE	White - OTHER PLUG	Green - OTHER PLUG	BLANK
BLACK Meter TX	BLANK	Purple - OTHER PLUG	BLANK	"GND POWER IN"	Yellow GND for RJ12	BLANK	BLANK	BLANK	BLANK

Only the three pins shown in green are connected to SmartMove through the RJ12 connector. These are:

- Pin 2: Black meter Tx
- Pin 3: Red meter Rx
- Pin 5: Yellow ground

The photograph below shows the orientation of the plug that the above table describes (ignore the fact that there is a green and white wire used for the Meter TX/RX, these are joined further down the loom to be colours specified for the RJ12 plug)





Novax Leda meter with EFTPOS Terminal

Schematic				
Note: black lines represent evicting schlas				
With the RI12-RI12 modular line				
cable connecting the meter to the EFTPOS modem, disconnect the EFTPOS modem end and connect it to the free RJ12 port of the Inline Coupler of the Meter Listening cable.	From SmartMove From meter			
With the short RJ12-RJ12 modular line cable connected to the other end of the Inline Coupler, connect it to the EFTPOS modem.	From SmartMove From SmartMove			
Connect the SmartMove terminal's RJ12 meter connection to the joiner on the Meter Listen Adapter	From SmartMove			
Set the following vehicle properties on the fleet management website	Meter Listen2 – Listen passively (EFTPOS)Meter Protocol4 – Leda Novax			
	Requires Fare Details 1 – Show fare screen (cannot cancel)			
	(Account) Requires Fare Details 2 – Show fare screen (can cancel) (Non-account)			

Schmidt Gx meter without EFTPOS Terminal

Schematic				
Note: black lines represent existing cables				
To connect SmartMove to a Schmidt meter you will need a Protocol Converter box . This will need to be purchased from Schmidt Meters at the fleet's expense. Using the RJ12-RJ12 modular line cable, connect one end to the COM1 port of the Break Out box. Connect the other end to either the G2/S meter or G3 meter port of the Protocol Converter box (depending on what series meter is used as noted below). Note1 : If the meter is a G2 series then use the G2/S meter port of the Protocol Converter box. If the meter is a G3 or G4 series then use the G3 meter port of the Protocol	To COM1 port of Break Out Converter box			
Connect the RJ12 SmartMove lead on the loom to the EFTPOS TERMINAL port of the Protocol Converter box.	Meter Listen 1 – Listen interactively (No EFTPOS)			
on the fleet management website.	Meter Protocol7 – Schmidt G4 or 2-VTD CompatibleRequires Fare Details1 – Show fare screen (cannot cancel)(Account)2 – Show fare screen (can cancel)(Non-account)2 – Show fare screen (can cancel)			

Schmidt Gx meter with EFTPOS Terminal

Schematic				
Note: black lines represent existing cables				
With the RJ12-RJ12 modular line cable connecting the Protocol				
Converter box to the EFTPOS modem, disconnect the Protocol Converter box end and connect it to the free RJ12 port of the Inline Coupler of the meter Listening cable.		From SmartMove From EFTPOS terminal		
With the short RJ12-RJ12 modular line cable connected to the other end of the Inline Coupler, connect it to the EFTPOS TERMINAL port of the Protocol Converter box.		From SmartMove From EFTPOS terminal		
Connect the SmartMove terminal's RJ12 plug to the meter listen adapter.	Fr	om EFTPOS terminal		
Set the following vehicle properties on the fleet management website.	Meter Listen Meter Protocol Requires Fare Details (Account) Requires Fare Details	 2 – Listen passively (EFTPOS) 7 – Schmidt G4 or 2-VTD Compatible 1 – Show fare screen (cannot cancel) 2 – Show fare screen (can cancel) 		
	(Non-account)	```´´		