



# Schmidt Electronic Laboratories Pty Ltd

## G4 Taximeter Specifications



### Physical Specifications

<b>Dimensions</b>	164(W) x 62.5(H) x 13.5(D)mm
<b>Weight</b>	133 grams
<b>Case construction</b>	polycarbonate

### Display

<b>Type</b>	Extra bright 7 segment multicoloured
<b>Size</b>	14mm high
<b>“RATE”</b>	1 x RED
<b>“FARE”</b>	6 x GREEN
<b>“EXTRAS”</b>	3 x AMBER

### Switches

<b>Type</b>	Illuminated tactile switches
<b>Size</b>	14 x 9mm (easy to press)
<b>Functions</b>	“Tariff” Tariff/Sleep “Mem.Tot” Memory/Total “Ext.Clr” Extras/Clear/Vacant “Fare” Start/Stop

### Memory

<b>Type</b>	Non-volatile (retains memory even with power failure)
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Clock and historical fare data is backed up by an internal long-life lithium cell.

## G4 Relay Harness (included with every G4 taximeter purchase)

<b>Dimensions</b>	82.4(L) x 53.5(W) x 30.5(H)mm
<b>Weight</b>	226 grams
<b>Cable to connect to G4 Meter</b>	2.5 meters long, 6mm diameter
<b>Inputs</b>	“Dist.” Connects to vehicle speedometer (see support page to locate the speedometer wire in your vehicle) “12V” 12V, 5A fused link to vehicle battery
<b>Outputs</b>	“Gnd” Connect direct to vehicle chassis or negative battery terminal “Vac” 12V relay switched output to drive VACANT roof-light indicator “T1” Tariff 1 roof-light indicator “T2” Tariff 2 roof-light indicator “NC” 12V output to other equipment indicating HIRED/VACANT
<b>Interface (Comm 1)</b>	RJ12 female connector Used to connect a Schmidt Interface Kit to provide an RS232 serial communications line with external equipment

## Tariff and Rate Structure

<b>Number of tariffs</b>	Up to 16 programmable tariffs
<b>Tariff switching modes</b>	Each tariff can be programmed to switch by one of: <ul style="list-style-type: none"><li>- time of day</li><li>- date</li><li>- button press</li><li>- controlled by external equipment</li></ul>
<b>Future dated rate changes</b>	come into effect.
<b>Rate structure of each tariff</b>	New rates take effect at programmable date and time. Each tariff can be programmed to increment the fare based on: <ul style="list-style-type: none"><li>- Initial fare (at start of fare, after a particular distance or after a particular time)</li><li>- Next increments (dollars per distance, dollars per time or whichever comes first)</li></ul>
<b>Extras</b>	The extras can be unique for each tariff. Added to fare by pressing the “Extras” button. extras)
<b>Roof light controls</b>	Each tariff can be set to change any of the 3 roof-light indicators
<b>Share Ride</b>	Programmable option for Share Ride.  Can stop fare at first drop-off location, and continue fare to second drop-off location.

## Interfacing with other devices

<b>Switched voltage in/outputs</b>	The G4 Relay Harness (see above) can receive speedometer information, control up to three roof-light indicators and output a “Hired” signal using 12V switched signals
<b>RS232 Communications link</b>	equipment receivers, etc.) The interface uses a RS232 serial connection.
<b>Secondary display</b>	Option for secondary slave display for passengers in rear of vehicle

## Power Specifications

<b>Operating Voltage</b>	9-12 V
<b>Current Protection</b>	Internal 10A fused link Recommended installation of 5A fused link from battery
<b>Power consumption</b>	3.5 Watts operating 0.32 Watts sleep mode

## Driver Functions

<b>Fares</b>	Drivers can Start, stop, total and clear fares
<b>Vacant light</b>	The vacant light is automatically turned on when a fare is not running. This option can be de-activated with a button press.
<b>Memory functions</b>	including: <b>ct</b> Current Time (24 hr clock) (hr.min) <b>cd</b> Current Date (dd/mm/yy) <b>01</b> Shift Money (\$.c) <b>(Victoria Only) 01A</b> Shift Surcharge <b>02</b> Shift Money per Hour (\$/hr) <b>03</b> Shift Money per Km (\$/km) <b>04</b> Shift Kilometres (km) <b>05</b> Last Job Fare (\$.c) <b>06</b> Last Job Extras (\$.c) <b>07</b> Last Job Distance (km) <b>08</b> Last Job Start Time (hr.min) <b>09</b> Last Job Finish Time (hr.min) <b>(Victoria Only) 09A</b> Total Surcharge <b>10</b> Total Money (\$.c) <b>(Victoria Only) 10A</b> Total Money Less Surcharge <b>11</b> Total Flagfalls (\$.c) <b>12</b> Total Units (\$.c)

- 13 Total Extras (\$.c)
- 14 Total Trips
- 15 Paid Kilometres (km)
- 16 Total Kilometres (km)
- 17 Current Calibration (pulses/km)
- 18 Speedometer Pulse Counter
- 19 Software Version / Clear Shift
- 20 Km Travelled Since Last Job (km)
- 21 Total Distance Units (\$.c)
- 22 Total Waiting Time Units (\$.c)
- 23 Speed (kph)
- 24 Tariff ID

**Memory clearing**

The driver can clear the Shift data manually.  
The taximeter totals cannot be cleared by a driver.

**Service Functions (using the optional Schmidt Programming Module)**

**Programming**

Programming is performed using the Programming Module.  
A customised tariff structure can be programmed into a Programming Module.  
Taximeters can be re-programmed without removing the taximeter from the vehicle.

**Memory clearing**

The meter totals can be cleared using the Programming Module.

**Calibrating the taximeter**

The G4 Taximeter has an inbuilt function to make calibration quick and easy.  
Calibrations typically take 15 minutes and can be performed anywhere.  
For added security, calibrations can only be performed using a Programming Module.

**Security seals**

Many countries require physical sealing of taximeters.  
Optional plastic seals are available (see accessories page).

**Serial Numbers**

also be internally programmed to ensure taximeters are not swapped without owner permission

**Accuracy**

**Distance measurement**

0.0002% typical, 0.01% worst case

**Time measurement**

0.00005% typical, 0.01% worst case

Independently tested to be a highly accurate taximeter.

## The Standard Kit

1 x Schmidt G4 Taximeter head  
1 x Front panel screw kit  
1 x G4 Relay Harness

Pre-programmed to your specifications  
Includes a custom security sealing screw

1 x G4 Mounting kit  
1 x Operating Manual

Includes 2 steel brackets, industrial strength double-sided tape and bolts  
Manual is also downloadable as a PDF from the support page.



### For more details:

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