



World Leaders in Taximeters

NOVAX 2020 TAXIMETER FEATURES

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A few new features have been added to the meter. Broadly fitting into three categories.

- 1/ Wireless networking using cellular SMS text service.
- 2/ Working hours timers.
- 3/Printed Receipt changes

SMS Text Network

The Novax 2020 meter has a graphics display, which means it can display text as well as numbers, in the same way as a Mobile Data Terminal. Simply by sending a text message to a cab, the office can display dispatch details of a job on the selected meter's screen, thus we have the basis for a simple taxi dispatch system.

Description of SMS Operation

With the meter configured for the SMS network and a compatible modem attached, the meter will send an unsolicited message each time it changes state; *For Hire, Hired or Logged Off*. In addition to the meter status, the location of the cab can be included in the message, if the vehicle is equipped with a GPS receiver. The office will always know the meter status! (and potentially its location), the essential ingredients for dispatch. Cabs can also be polled by the office system in order to update their location and status.

Payment card Transactions

At the end of a fare, (return to Vacant) the meter message will contain the fare and transaction details, if a payment card was used, thus real-time data transfer to the office is also achieved. (The office can access meter records by periodically using the "dial up" facility to transfer data records from each cab, if required).

Working Hours and Rest Periods

With the new regulations regarding driver working hours and rest times, the full bi-directional network system can help the office to comply with the requirements. When taking a rest, the driver will switch his meter to "Off", a text-message is sent by the meter to the office to log him off, and the rest period begins. Driver's rests and working hours can thus be logged by the office software, warnings can be issued if the working hours limits are exceeded. If required, an "End Shift" command can be sent from the office, this will switch the driver's meter "Off" and end the current SHIFT. If the meter is so configured, the meter is effectively locked, until the office sends a "Start Shift" command. This can be used as a "log-on"/"log-off" facility, thus all the tools are available to enforcing the regulatory rests.

Working Hours Displays

To assist drivers to monitor their own working hours, three new timers have been provided and will be displayed on the "For Hire" screen of the meter. The left-hand timer records hours and minutes worked since the driver last took a ten hour break. The right-hand timer records hours and minutes worked since the driver last took a thirty minute break. The timers will be automatically reset



when the appropriate breaks have been taken, ie the meter switched to the "off" mode for the required period (30 minutes/ten hours). "Hours worked" timers accumulate whenever the meter is "For Hire" and "Hired". The third timer logs the time since a 24 hour break was taken, and will only be displayed if this period exceeds 70 hours, in which case the timer will be displayed in place of the other two timers.

Meter Lock controlled by Daily-Working-Hours Timer.

Timers are a configurable option. It is also possible to use the *thirteen-hour* timer to control the meter's 'Shift-period'. This simply means that the meter will be shut down thirteen hours after the last *ten-hour* break was taken. The meter will remain locked in the 'Off' mode for a *ten hour period*. Thus limiting the driver's daily working hours to thirteen hours.

Notes:

- 1) These functions are of limited effectiveness on double-shifted cars.
- 2) Timers and Daily-Control are not dependent on network connection.

Meter Indicators (refer meter photograph above)

A number of symbols will display on the meter screen to indicate operation of the network:

Envelope:- indicates meter is configured for the SMS network, and the modem has been detected.

Network:- indicates data is actively being sent and acknowledged over the network (whether SMS or other).

Cross-hairs:- indicates GPS receiver is connected and receiving a good fix. This symbol is refreshed frequently, and may disappear for short periods.

Telephone Ring:- indicates that the meter is configured to answer incoming calls, and that the modem has been detected.

(Note: telephone symbol would normally overwrite the network symbol).

Printed Receipt Changes

The receipt now includes the Taxi's *Vehicle Registration Number*.

Card transaction receipts now include *card expiry date* and the Duplicate receipt is printed "*Customer Copy*" across the signature space.

The *Job Number* is now included on the receipt for easy referencing to the data transferred via the network.