Leda #3 Specifications

Description
Quality equipment with inbuilt sophistication to cope with any current or future requirement. Supplied with full interconnect ability for sophisticated systems markets.

Power Requirements
Operating voltage: 8V to 16V
Current drain: approx 20mA in OFF 200mA

Operating temperature
0 to +80 deg C.

Dimensions.
Case size: 165mm x 55mm x 25mm
Fare digit height: 14mm
Extras digit height: 7mm

External-Lamp Drive (Hi-side solid-state FET switching)
For Hire lamp: 3 Amp max.
Aux lamps: (3 of) 3 Amp max. (Programmable as Tariff lights or other functions)

Fare Schedule Range
Number of Tariffs: 1 to 12
Maximum displayable Fare: $9999.99
Maximum displayable Extras: $999.99
Flag Fall: 0 to $99.99 each tariff independently variable.
Drop Value: 0 to $99.99 each tariff independently variable.
Extras Value: 0 to $99.99 (9 programmable values)
Extras Limit: 0 to 255 increments
Extras can be disabled for all or any tariff, or after initial drop. They can also be applied remotely via radio network.
Distance per Drop Range: 0.1 to 4000 metres
Waiting Time Range: 0.125 seconds to infinity
Calibration Range: 500 to >25,000 pulses per Km.
Other metering options including European style *Dual Metering* are programmable.
(Decimal Point position is programmable)

Automatic Tariff Change
The operating tariff can be programmed to increment automatically at a predetermined distance, or predetermined fare, or drop count.
Automatic tariff change on distance range: 0-100km
Automatic tariff change on fare range: 0-$999.99
Automatic tariff change on drop range 0-256 drops
The operating tariff can also be controlled by the internal Clock-Calendar. Thus penal rates can be programmed to engage automatically at predetermined time of day, weekends and public holidays
Tariff selection can also be controlled by an external source via the UART serial interface. In conjunction with a Radio network, allowing the dispatch office to control the selected tariff.

Metering Accuracy
Metered distance: Accuracy over 1km better than 1%
Metered time: Better than 0.1%
Calibration figure: Better than 0.1%
Interference Speed: The accuracy of operation at the change over speed is affected by interference less than 1%.

Fare Schedule programming method
Using the Novax Fare-key memory module. Downloading the fare schedule in moments. This device is supplied with a predetermined number of shots programmed, this number decrements with each use. The "implementation date" is also included in the fare schedule. When compared with the meter's internal clock; if the implementation date has not yet passed then the old schedule will remain in force until that date.

Sealing method
Mechanical: Single point sealing. Screw wired to post securing access panel, meter to back plate. (Three point sealing optional)
Electronic: Registration Counter and Date stamp is advanced each time the fare schedule is changed. A second Counter and Date stamp register is provided for the Calibration setting.

Mounting
The back plate is provided with two recessed holes, adequate for any dash or bracket mount. The meter slides over two guides on the back plate, then clicks into place and is secured by the sealing screw.

Serial Interface
Two RS232 compatible ports: 1200 to 9600Bd (selectable) currently supports several protocols.
IRDA compatible infrared communications link for data transfer and control options.

Swipe Card Port
Proprietary connection. For standard swipe readers.

Memory Card Port
Proprietary memory card connection for data collection and transfer.

Running Totals
Running totals are stored in memory and can be sequentially displayed. The three phases are:
Shift Totals
Tariff Totals
Global Totals
Global and Shift Totals display the following:
   Total Fares (dollars and cents)
   Total Extras (dollars and cents)
   Number of Trips
   Number of km. traveled whilst hired
   Total km. traveled.
Tariff Totals display separate totals for each tariff programmed.
   Total Fares (dollars and cents) accumulated per tariff
   Number of trips started in each tariff
   Number of km. Traveled whilst hired in each tariff
   Time (hours and minutes) spent hired in each tariff.
Data log: Full details of every job are collected within the meter and can be downloaded via the "Memory card", IRDA link or communications port. Options are endless!

Fare Schedule display
Fare Schedule can be displayed in a similar manner to running totals.

Use of Printer for Totals:
With a printer attached to the serial port connector the displayed totals can be printed. The standard print header identifies the Cab number the Company, the GST number and time/date stamp.
The printed shift report contains the following additional information:
Shift-start-event date/time stamp
Shift start-event Global km. recording
Payment summary; metered charges and card service fees.
Credit card sub total.
Charge card sub total
Subsidy sub total
Global Totals summary

Operating Data Integrity
At the time of programming fare schedules or calibration data, a checksum is calculated and stored in the non-volatile memory.
Every time the meter is switched on the data is verified against these checksums, preventing operation with corrupted or altered data.