SEAMLESS DATA TRANSFER USER MANUAL



| Specification |
|------------------------------|
| Power input |
| Maximum Server Connection |
| Flow Meter Interface |
| Minimum Pulse Width |
| Modem Frequency |
| Modem GPRS Class |
| Modem TX Power |
| Operating Temperature |
| Storage Temperature |
| Standard |
| Dimension |
| |

: Lithium Battery 3.6V/14Ah
: 5000 Cycles
: Pulse Input Active/Passive
: 500uS
: 900Mhz/1800Mhz
: Multi Class 12
: 2W @ GSM 1900, 1W @DCS 1800
: -30DegC to 70DegC
: -40DegC to 85DegC
: IP65

1.0 Normal Menu

| S No | Description | Function |
|------|-------------|----------|
| 1 | SET Key | Nil |
| 2 | INC Key | Nil |
| 3 | DEC Key | Nil |

LCD Display

| S No | Display | Function | Description |
|------|----------------|--------------|--|
| 1 | S90 ID00001 1m | Actual Value | S90 – Last Connection GSM Signal |
| | | Display | Strength |
| | | | ID00001 – Instrument Serial No/ID for data |
| | | | Export to WEB |
| | | | 1m – Elapsed Minutes Transmission |
| | | | Interval |
| 2 | 000000m3 BAT14 | – Do - | Six Digit Totalizer value, Accumulated |
| | | | Pulse Input from Flow meter |
| | | | BAT Percentage |
| | | | 14 = Battery Full |
| | | | 8 = Battery Down |
| 3 | NO Display | - Sleep Mode | During Power up Data will be |
| | | - | transmitted once and system will go to |
| | | | Sleep. LCD Will be OFF. Power Up after |
| | | | Set Interval in minutes. |

LED INDICATION

| S No | Display | Function | Description |
|------|---------|----------|--|
| 1 | TX | NA | |
| 2 | RX | NA | |
| 3 | Network | GSM | GSM Network Status |
| | | | Power UP During Transmission |
| | | | On time=off time = No Network |
| | | | On time< <off ok<="" td="" time="Network"></off> |

2.0 SETTING MENU

While Pressing SET key Power up Instrument, Instrument Enters into Setting Menu

| S No | Description | Function |
|------|----------------|--|
| 1 | SET Key | Shift Next Digit, Store Setting, Configure Modem |
| 2 | INC Key | Value Increment |
| 3 | DEC Key | Value Decrement |
| 4 | INC and DEC | Previous Menu |
| | Simultaneously | |

Note : Controller Operating Frequency is very low for Battery Operation.Key sensing time is higher. 1sec press and 1sec release.

LCD DISPLAY

| S No | Display | Function | Description |
|---------|-------------|-----------------------|--|
| 1 | 00 APN | Access Point Name | 00 - Airtel |
| | | | 01 – IDEA |
| | | | 02 – Reliance 1 |
| | | | 03 – Reliance 2 |
| | | | 04 – Tata Docomo |
| | | | 05 – VODAPHONE |
| | | | 06 – BSNL |
| | | | 07 – BSNL South |
| | | | XX – Airtel |
| | | | |
| 2 | 00001 ID | Inst Serial Number | 00001 to 99999, Server Export ID |
| 3 | 0001 MIN | Data Upload Interval | 0001 to 9999 Minutes |
| 4 | 000000 | Match SDTB Totalizer | 000000 to 999999m3 |
| | TOTOFFSET | with Flow Meter | Shows Last Accumulated Value |
| 5 | 0 PULSECNT | Mechanical Flow meter | Use this menu to read pulse count for |
| | | Calibration | 1cubicmeter. |
| 6 | 001 KFACT | K Factor | Enter the value read in Pulse count menu |
| | | | for 1cubicMeter. |
| 7 | PA 000000 C | Totalizer validation | PA = Actual Pulse |
| | 000000 | | C = Actual Pulse/Kfactor |
| 4 | 11111111 | Display Check | 111 to 999 Auto scroll |
| 5 | Modem con | GSM Modem Config | Modem Auto test |
| | | | NO SIM – Check SIM Holder |
| | | | NO Network – Activate SIM for GPRS |
| | | | connection. |

3. FAQ

| S No | Issue | Solutions |
|------|---------------------------|--|
| 1 | Totalizer = 0 | Check Flow meter Magnetic Switch |
| | | |
| 2 | NO SIM | Check SIM Position |
| 3 | NO Network | Activate SIM. Check Browsing on any mobile Phone |
| | | with this SIM |
| 4 | ERROR during server | Enable SIM for 2G data connection |
| | connect. | |
| 5 | Server connect OK, But No | Check 2G data connection balance and Recharge. |
| | data log in WEB | |

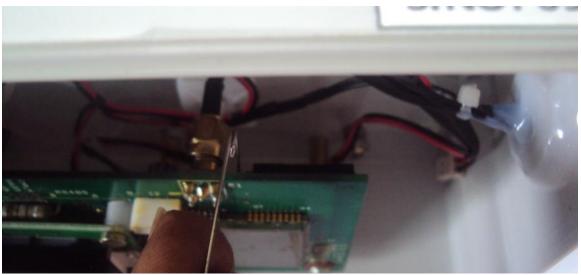
| 6 | After IP address Display, | Check 2G data connection balance and Recharge. |
|----|------------------------------|---|
| | No SENDOK message. | |
| | Instead ERROR Display. | |
| 7 | No IP address Display. | Select correct APN for the service Provider. Check |
| | | Browsing on any mobile Phone with this SIM |
| 8 | First time Data transmission | Since system operates at very low power. Last Residue |
| | Fails. During Battery | power remains. Remove the Battery Power wait for |
| | Connect. | 1min and Reconnect to Board. |
| 9 | Network LED not glowing. | Since system operates at very low power. Last Residue |
| | During first time Battery | power remains. Remove the Battery Power wait for |
| | Connect. | 1min and Reconnect to Board. |
| 10 | Transit | During Transit Battery connector can be removed to |
| | | increase Battery Life. |

Installing New SIM

Step 1: Remove Instrument Top Cover



Press Eject Knob With a Nail, Don't use Screw Driver.



Place SIM



Insert in Holder



WATER METER - ADDING USER IN WEB

www.rltinstrumentation.com

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| Login | : Type required login ID |
|----------------------|--|
| Password | : Type required password |
| Customer Name | : Display in the TOP of user page and in excel report |
| Serial No | : First 2 Digit of 5 Digit serial No/ID in the field instrument (SDTS-1) |

ADDING INSTRUMENTS IN USER

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Instrument Serial No: Enter Last 3 digit of the Field Instrument Serial no/ID (SDTB-1) **Enter Tag Name:** Type in required Name for the field Instrument (SDTB-1)