FirstPoint Energy Corp. (formerly Teldata Solutions) presents the TDS-2 Telemetry Interface Unit (TIU) as an advanced data recording device designed to communicate and deliver interval data to FirstPoint’s AMR System. The TDS-2 is a low cost universal 2-port TIU with extensive data logging; power outage and independent port/meter tamper capability. The TDS-2 can read electric, gas or water meters and any combination of encoded or pulse output meters automatically at intervals of 5, 10, 15, 30, 60 minutes and daily.

The TDS-2’s use of battery-supplied power is ideal for the water and gas utility industries. Electric utilities and commercial and industrial applications will use its extended memory storage of interval data (see chart) to track consumption to a fine resolution for load profiling. Its universal meter compatibility makes it ideal for system cost sharing in all multi-utility applications.

Advantages
- Interval data recording to 5 minutes
- Real time power outage reporting
- Auto notification tamper monitor
- Demand call enabled
- Multi-host/utility enabled
- AC Power NOT required
- Dynamic phone line detection allows use of telephone line without interruption of service.
- Auto-Telco line level sensing allows uninterrupted operation if service switches between 48 Volt and 24 Volt systems, allowing the unit to adapt to new Telco providers using 20vdc analog signatures or higher without interruption or field visits.

Certifications
North American Telecom
FCC Part 68
CS 03, Industry Canada

North American
FCC Part 15, Class B
IC CS 003 (Canadian)
IEC 801.2 – Electrostatic Discharge
IEC 801.3 – Radiated Susceptibility
IEC 801.4 – Fast Transient

Environmental
ANSI C12.1-1995 Salt Spray
ANSI C12.1-1995 Section 7.7.3.17 Humidity
ANSI C12.1-1995 Section 4.7.3.16 Temperature Cycle
**Features**

- Non Volatile Memory Storage:
  
  | Daily Interval | 128.0 days |
  | 60 minute interval | 298.4 days |
  | 30 minute interval | 149.2 days |
  | 15 minute interval | 74.4 days |
  | 10 minute interval | 49.6 days |
  | 5 minute interval | 49.6 days* |
  | 5 minute interval ** | 24.8 days** |

  Port 1 Operation* Port 2 operation**

- Connects with standard telephone line (24V or 48V).
  The unit will automatically adjust to Telco line voltage changes from 20VDC up.

- Dial inbound TDS-2 Initiates call based on set schedule.

- Demand calling to alert TDS-2 to deliver data originates from host computer.

- Update TDS-2 programming from the host computer without the need to be onsite.

- The TDS-2 will retry if the connection is lost with the host, 4 times, waiting 24 hours before next attempt and continues every 24 hours until contact is established.

- Dynamic phone line detection allows the TDS-2 to avoid interference with phone line subscriber.

- Data download time to transmit interval data ranges between 30-180 seconds.

- Power failure alert, real time and programmable, filters momentary sags in power and immediately calls and alerts the host of power failures by port.

- Tamper/theft alert, programmable and port independent alerts the host of disruption to the TDS-2.

- Operation **without** AC power means easy, lower cost installation at all locations, not only hard to read meters.

- Universal Meter Compatibility with most 3-wire encoders and pulse output meters enables easy installation and TIU switch out.

**Applications**

- Commercial & industrial energy consumption monitoring
- Water and gas monitoring
- Billing
- Load studies
- Power outages
- Tamper/theft detection
- Submetering – property management

**Encoder Meters**

- Sensus water & gas
- ABB water indexes
- Schlumberger Water & Gas Indexes

**Pulse Meters**

- Pulse Types:
  - Form A switch closure
  - 1/2 Form C switch closure
  - (1/2 KYZ non supervised)
  - Low Voltage Pulses

**Power**

- External 110V AC adapter 9 Watts
- Internal 115V transformer 1.5 VA
- Internal 230V transformer 1.5 VA
- DC 3.6V AA lithium battery (10 year life*) – field replaceable option.

  * 10-year life reading 2 ABB encoders every 15 minutes (worst case condition).

**Operating Environment**

- The TIU enclosure is a NEMA 3 designed for outside use, providing a water resistant environment for the electronics. See enclosures for dimensions and ratings.
- Temperature range -40°C to +70°C
- Relative humidity 95% Non Condensing

**Isolation**

- Phone-to-Input Isolation 1500 VAC

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**Enclosures**

Composition: Lustran ABS 911 Polycarbonate

<table>
<thead>
<tr>
<th>Type</th>
<th>Rating</th>
<th>Dimensions (l x w x d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential</td>
<td>NEMA 3</td>
<td>4.4” x 5.0” x 2.3”</td>
</tr>
<tr>
<td>Commercial</td>
<td>NEMA 4</td>
<td>8.3” x 7.2” x 3.1”</td>
</tr>
</tbody>
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For additional information about our products and services contact FirstPoint Energy Corp. at 1.888.422.8484 or visit our web site.