Available for new construction and retrofit applications, the Pulse Transmitter from Byram Laboratories, Inc. is a compact, low cost, programmable transmitter designed to accept relatively fast, un-scaled, raw pulses from devices such as: Flow sensors, BTU meters, electric, gas, water meters, portable kWh meters, instrumentation and process applications. This utility grade transmitter is used in many applications, such as: monitoring and targeting leakage, pressure and consumption.

The Transmitter counts pulses from meter-head or reed switch type output utility meters (e.g. electricity and water). The transmit or “chirp” consists of a secure data packet along with a status and unique ID address at regular intervals (various transmission times available).

The transmitter can send data directly into customer specific FTP or use Byram’s online service. Byram’s secure web based portal collects the received data to be processed and displayed.

Key Features

- Unlicensed frequency hopping spread spectrum (FHSS) RF technology
- 902 MHz to 928MHz communication range
- Compliant with FCC Rules, Part 15 and Industry Canada RSS-210
- Temperature range of -31°F to +140°F
- Housing meets IP68
- Multiple operation mode:
  - fixed network
  - hybrid (mobile/fixed)
- Designed for wall mounting
- General purpose ABS plastic (material carries a UL flammability rating of UL94 HB)
- Gasket lid with two piece “tongue & groove” construction, resistant to access of oil, dust and water
- Designed to meet IP 67 & NEMA 4, 4X, 12 & 13 ratings
- 4 ft. cable length
Specifications

**Byram Pulse Transmitter**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Range</td>
<td>902 MHz to 928 MHz</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-31°F to +140°F</td>
</tr>
<tr>
<td>Enclosure Material</td>
<td>General purpose ABS plastic</td>
</tr>
</tbody>
</table>

**Connection Instructions**

<table>
<thead>
<tr>
<th>Standard register connections</th>
<th>Green cable</th>
<th>Red cable</th>
<th>Black cable</th>
<th>Power (or power/clock)</th>
<th>Common (ground)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Register connections for</td>
<td></td>
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<tr>
<td>pulse (incremental) encoders</td>
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<tr>
<td>Power Supply</td>
<td></td>
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<tr>
<td>Lithium Battery</td>
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<tr>
<td>(expected battery life of over 20 years)</td>
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</tbody>
</table>

| Width x Height x Depth        | 6 in. x 2.5 in x 1.5 in |
| Weight                        | 0.55 lbs |
| Cable Length                  | 4 ft. |
| Ordering #                    | 1C6974 |

Solutions for Energy Measurement

**Central Utility Plants**
- Chillers
  * Chilled Water Flow & Energy
  * Condenser Water Flow & Energy
  * Steam Mass Flow
  * Electrical Usage
- Boilers
  * Steam Mass Flow
  * Steam Condensate Return Flow
  * Natural Gas & Fuel Oil Flow
  * Safety Gas Alarming for CO & Combustibles

**Parking Garages**
- Carbon Monoxide Safety Systems
- Fan Control & Safety Alarm Solutions
- Alternate Fuel Vehicle Safety Solutions

**Sub-Metering**
- Chilled & Hot Water Flow & BTU/Energy
- HTHW or Steam Mass Flow & Energy
- Electrical Usage
- Domestic Water Flow
- Natural Gas Flow

The Byram Pulse Transmitter can be easily applied in a multitude of applications.

Ordering #: 1C6974