

## Trilliant® Scan Transponder-5 (ST-5)

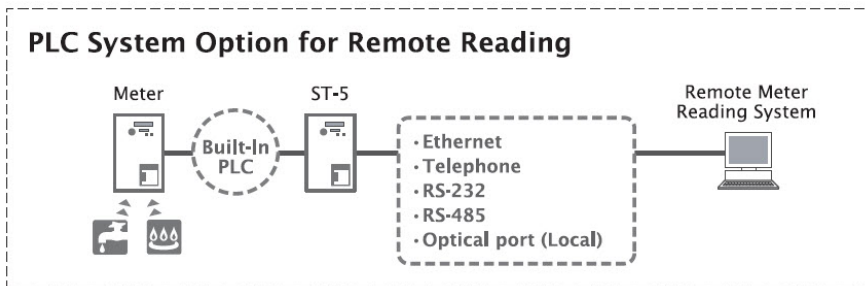
The Scan Transponder-5 (ST-5) is the central data collector and communicator for the Trilliant metering system. It communicates with all Trilliant meters over the existing electric wires that serve each metered occupant in a building. This form of Power Line Communications (PLC) is a Quadlogic patented two-way technology that is robust and reliable.

### Features

- Built-in Power Line Communications
- Communicates data through distribution transformers (600/120V)
- Voltage: 120/208V, 240/416V, 347/600V
- Collects data for up to 240 devices
- (Multiple ST-5s can be connected via a RS-485 cable)
- Non-volatile flash memory
- UL-C (E 204142)



Trilliant® ST-5, Front View



### Verifies

- Each communication begins with clock and meter ID verification to ensure data integrity

### Collects

- Each day the ST-5 collects and verifies all previously uncollected meter readings, interval readings and event logs (fully programmable)

### Stores

- Stores approximately 40 days of rolling interval data in non-volatile flash memory

### Reports

- The ST-5 or network of ST-5s is accessed from a remote meter reading system using Ethernet or a telephone modem for data transfers.

### Dimensions

- H 34.3 cm x W 21.6 cm x D 11.4 cm
- H 13.5" x W 8.5" x D 4.5"

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## Monitoring Specifications

|   |                              |
|---|------------------------------|
| <b>Voltage</b>                                  | 120/208V, 240/416V, 347/600V |
| <b>Communication Frequency Band</b>             | 10-90 kHz                    |
| <b>Number of Devices per Scan Transponder-5</b> | Up to 240                    |

## Liquid Crystal Display

|                       |  |
|-----------------------|--|
| <b>Specifications</b> | 32-digital liquid crystal display (16 digits x 2 rows)<br>6 whole digit consumption register<br>Data digit height: 7.8mm (0.31") |
|-----------------------|--|

## Operating Range

|                        |                   |
|------------------------|-------------------|
| <b>Frequency</b>       | 50-60Hz           |
| <b>Rated Voltage</b>   | 90% to 110%       |
| <b>Temperature</b>     | -20°C to +60°C    |
| <b>Operating Power</b> | Less than 5 watts |

## Memory

|                            |   |
|----------------------------|---|
| <b>Flash Memory</b>        | 4 Megabyte non-volatile flash memory retains daily and interval data  |
| <b>During Power Outage</b> | Flash memory retains daily/interval data for approximately 40 days rolling<br>Long-life lithium battery maintains time and retains data acquired within the incompleting interval at the time of the outage |

## Environment

|                         |  |
|-------------------------|--|
| <b>Usage</b>            | 50-60Hz                                  |
| <b>Enclosure</b>        | NEMA 1 rated                             |
| <b>Temperature</b>      | -20°C to +60°C                           |
| <b>Humidity</b>         | 0-90% relative humidity (non-condensing) |
| <b>Pollution Degree</b> | 2  |
| <b>Maximum Altitude</b> | 2000 meters                              |

## Shipping Weight & Dimensions

|                        |                                   |
|------------------------|-----------------------------------|
| <b>Dimensions</b>      | H 34.3 cm x W 21.6 cm x D 11.4 cm |
| <b>Shipping Weight</b> | 5.21 kg (11.5 lbs)                |

# Trilliant® Scan Transponder-5 (ST-5)

## Ordering Information

A complete Scan Transponder is comprised of two catalog numbers, the Scan Transponder Head and the Back Box Assembly.

## Scan Transponder-5: Head (T5H)

|                                   |  |
|-----------------------------------|--|
| <b>Models beginning in "T5H"</b>  | Transponder head and RS-485 connection                           |
| <b>Models beginning in "T5HM"</b> | Transponder head, Modem, RS-485 connection and RS-232 connection |
| <b>Also require</b>               | Scan Transponder Back Box Assembly (ST5 BBA)                     |

## Shipping Weight & Dimensions

| Catalog #   | Volts    | Scan Transponder with RS-485 Only | Scan Transponder with Modem, RS-485 and RS-232 |
|-------------|----------|-----------------------------------|--|
| T5H-120V    | 120/208V | X                                 |  |
| T5H-240VYX  | 240/416V | X                                 |  |
| T5H-347VX   | 347/600V | X                                 |  |
| T5HM-120VX  | 120/208V |                                   | X  |
| T5HM-240VYZ | 204/416V |                                   | X  |
| T5HM-347VX  | 347/600V |                                   | X  |

## Scan Transponder-5: Back Box Assembly (ST5 BBA)

|                       |  |
|-----------------------|--|
| <b>Includes</b>       | H 34.3 cm x W 21.6 cm x D 11.4 cm/ H 13.5" x 8.5" W x 4.5" D     |
| <b>Enclosure Size</b> | Transponder head, Modem, RS-485 connection and RS-232 connection |
| <b>Also requires</b>  | Scan Transponder Back Box Assembly (ST5 BBA)                     |

## Shipping Weight & Dimensions

| Catalog #         | Volts    |
|-------------------|----------|
| ST5 BBA 120V CDN  | 120/208V |
| ST5 BBA 240VY CDN | 240/416V |
| ST5 BBA 347V CDN  | 347/600V |