

# Scan Transponder-5



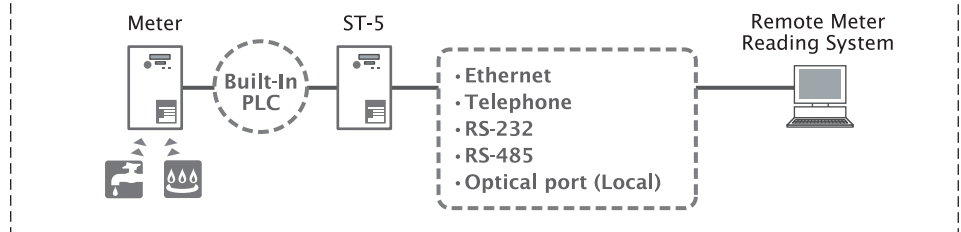
Data Collection and  
Communication Module



Dimensions:  
H34.3cm x W21.6cm x D11.4cm  
(13.5"H x 8.5"W x 4.5"D)

The **Scan Transponder-5 (ST-5)** is the central data collector and communicator for the Quadlogic metering system. It communicates with all Quadlogic 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.

## PLC System Option for Remote Reading



### **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 ST5 or network of ST5s is accessed from a remote meter reading system using Ethernet or a telephone modem for data transfers.

# 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 RS-485 cable)
- Non-volatile flash memory
- UL-C (E 204142)

25 <sup>1982-2007</sup>  
ANNIVERSARY years

# Specifications



## ► Monitoring Specifications

- Voltage: 120/208V, 240/416V, 347/600V
- Communication Frequency Band: 10-90 kHz
- Number of devices per Scan Transponder-5:  
Up to 240

## ► Liquid Crystal Display

- 32-digit liquid crystal display (16 digits x 2 rows)
- 6 whole digit consumption register
- Data digit height: 7.8mm (0.31")

## ► Operating Range

- Frequency: 50-60Hz
- Rated Voltage: 90% to 110%
- Temperature: -20°C to + 60°C
- Operating Power: Less than 5 watts

## ► Metering Industry Standards

- UL-C: recognized under E 204142

## ► Memory

- 4 Megabyte non-volatile flash memory retains daily and interval data
- During power outage:
  - Flash memory retains daily and interval data for approximately 40 days rolling
  - Long-life lithium battery maintains time, and retains data acquired within the incompleting interval at the time of the outage

## ► Environment

- Usage: For indoor use only
- Enclosure: NEMA 1 rated
- Temperature: -20°C to +60°C
- Humidity: 0-90% relative humidity (non-condensing)
- Pollution Degree: 2
- Maximum Altitude: 2000 meters

## ► Shipping Weight and Dimensions (1 Enclosure)

- Dimensions: H34.3cm x W21.6cm x D11.4cm (13.5"Hx8.5"Wx4.5"D)
- Shipping weight: 5.21kg (11.5 lbs)

# 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)

**Models beginning in "T5H":** Transponder head and RS-485 connection

**Models beginning in "T5HM":** Transponder head, Modem, RS-485 connection and RS-232 connection

**Also requires:** Scan Transponder Back Box Assembly (ST5 BBA)

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

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

**Includes:** Back box and fuse block

**Enclosure Size:** H34.3cm x W21.6cm x D11.4cm (13.5"H x 8.5"W x 4.5"D)

**Also requires:** Transponder head (T5H)

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

