

Specification Sheet



T210 Electronic Remote Counter With Visual Display

- *Reduced Meter Reading Costs*
- *High Integrity Pulse Counting*
- *Fully Configurable*
- *Long Battery Life*
- *Operates at -13°F to +140°F (-23°C to +60°C)*
- *Leak Detection*
- *“Touch Free” Reading*
- *Solid State Unit*

Description

Reduced Meter Reading Costs.

The T210 (SCANCOUNTER) electronic remote counter is designed specifically for accurate counting of water meter pulse outputs. Inexpensive and reliable, the T210 remote counter is a cost effective solution to meter reading access problems. The T210 is installed in a location easily accessed by the meter reader. Connected to the water meter pulse output by wire, the T210 accumulates pulses from the water meter and stores the reading.

The meter reading and serial number is recorded, via the T450 Mini-Reader using AMCO's "Touch Free" inductive reading technology pioneered in AMCO's proven encoder register. This facility enables utilities to simply and cost effectively migrate their system from visual to electronic reading, secure in the knowledge that by installing T210 to read visually today, the investment is maintained as the system progresses towards fuller implementation of electronic meter reading systems.

The T210 can be used in the SCANREAD system, enabling all types of pulse meters to be read by the same electronic meter reading system.

The data output is similar to that of the AMCO encoder.

Fully Configurable.

T210 can be used with any meter with a volt free (reed switch) or Pulse Generator output. The divide ratio can be any number between 1 and 2,000 and the existing meter reading can easily be pre-set in the T210 memory at time of installation.

Customer Service.

The T210 can also be configured to detect suspected fraud, for example the cutting of pulse input wires, and can also indicate if no water has been consumed for 30 days, indicating potential meter stoppages or removal of pulse probes.

Providing a warning when long periods of continuous flow are detected, the T210 can also be configured to look for leaks. The warning is transmitted with the meter reading every time the meter is read.

Additional Features.

T210 incorporates fully sealed electronics with a permanently connected battery for reliability.

A sophisticated combination of digital signal processing and correct pulse techniques provides high integrity pulse counting, and ensures against premature battery failure.

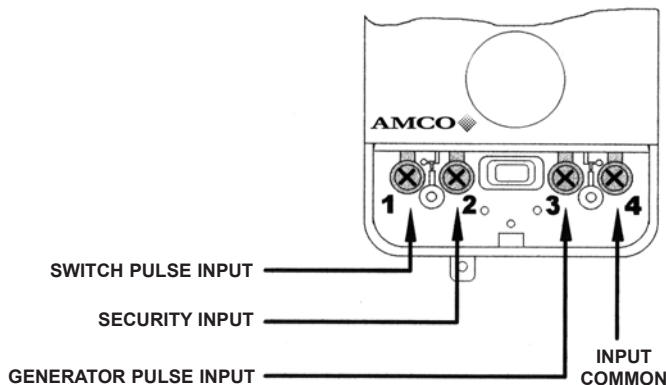
T210 is compatible with all major handheld meter reading computers with communication via the SR100 "Touch Free" probe. It may also be read by AMCO's T450 Mini-Reader.

T210 has a 7 digit liquid crystal display (LCD). The 1/4" character height makes the display easy to read and following careful selection of materials, the LCD is designed to survive temperatures as low as -40°F.

The number of digits displayed can be set to between 4 and 7, enabling the display to show the full meter reading or only billing units. An activity icon on the display indicates when

pulses are received by the T210, simplifying installation and testing. A cover is provided to protect the LCD from high levels of ultraviolet light, and also to provide shade to facilitate reading in high sunlight conditions.

Additionally, the display can be configured to indicate tamper and the possibility of leaks in the customer's system. A location is provided on the housing for a meter serial number label.



Note: Connections to reed switch pulsers such as AMCO Water Metering Systems' LRP (on the T3000) and T-probe for the V100 (red and blue wires) are made to pins 1 and 4. Similarly, generator pulse connections are made to pins 3 and 4. Call for instructions on utilizing the security input (pin 2).

Configuration Options.

No. of digits displayed (4,5,6 or 7)
Scale Factor 1 - 2,000, x 10
Programmable 10-digit serial number
Programmable initial meter reading
Leak monitor
Tamper - non usage, wire cut
Choice of units - m³, gallons, litres, Cu Ft, kl
All can be factory or field set.
Choice of inputs: Volt Free (reed switch), Pulse Generator
Compatible with all AMCO water meters providing low resolution pulse output.

Environmental.

Operating Temperature: -13°F to +140°F
(-25°C to +60°C)
Operating Humidity: 95%RH
NEMA 4 provided the terminals are gel-sealed at installation.

Physical.

Housing: High Impact Polycarbonate
Drop Test: 1m drop test
Dimensions: 3" (H) x 1.75" (W) x 1" (D)
Weight: 5.3 oz.

Electrical.

Power Source: 3.6V Lithium Battery (Calculated life greater than 10 years). Operating life is not affected by the number of pulses counted.
Battery Low Indicator (on LCD if fitted and in data output).
Maximum Input Frequency: 10 Hz
Approvals: CE marked.
Wiring: See diagram to the left.

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Daniel L. Jerman Co.
275 Railroad Place
Hackensack, NJ 07601
Phone 800.654.3733
Fax 201.487.3953
International Phone
201.487.7444