



# DSC-380 Impulse Digital Secondary Clocks



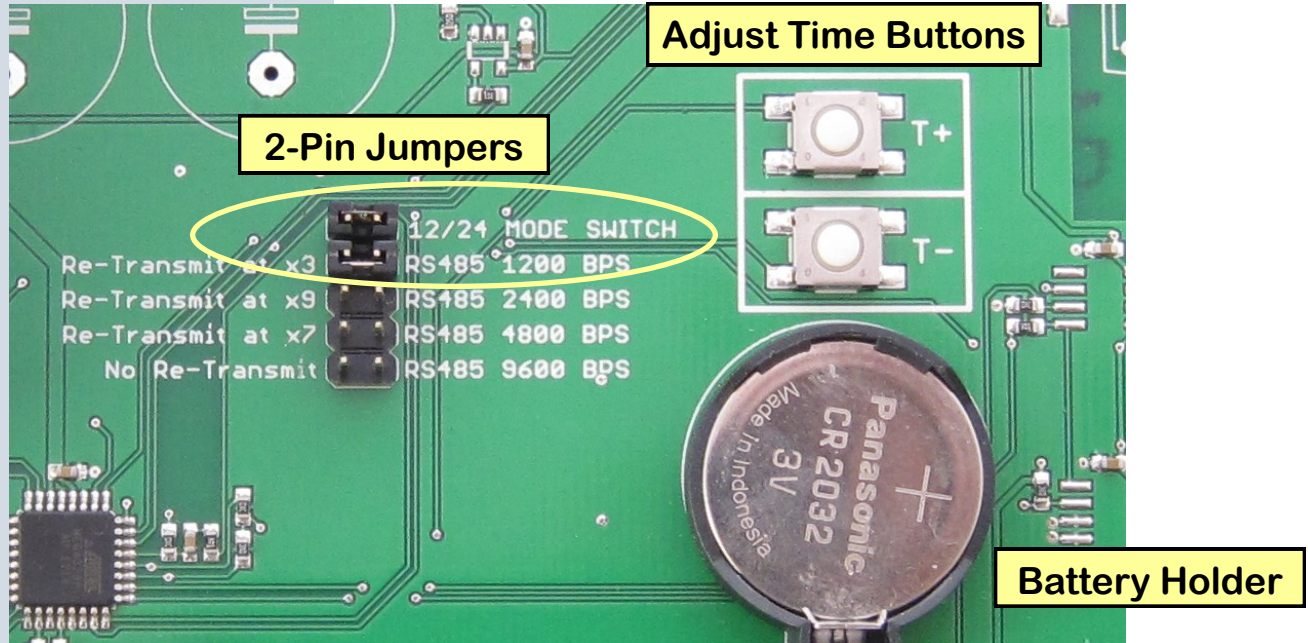
Midwest Time Control  
TIMELESS RELIABILITY SINCE 1988

Our Impulse Correction Digital clocks have undergone a major update. We've added a real time clock with a coin battery, a state of the art microprocessor and a modern power supply that weighs less and draws far less current than former transformers.

The time set buttons on our clocks are now located on the PCB, rather at the top of the clock case.

The real time clock recognizes AM and PM so consider this while setting the time.

Clocks come with a 10-year rated battery installed. If left installed, the battery will keep time until the battery dies even without power.



## Impulse Synchronization Protocol

**We use 2-Pin jumpers to control the Impulse correction.**

- Jumper must be at the 1200bps jumper for Two Wire, Reverse Polarity, 59th Minute correction
- Set the clock time no more than 10 minutes before actual time —DO NOT SET FAST.
- Minutes update at the 59th minute of each hour.

### Optional Custom Corrections

- 2400bps jumper -> Two Wire 59th Minute with 12 Hour Correction
- 4800bps jumper -> Three Wire 59th Minute
- 9600bps jumper -> Three Wire 59th Minute with 12 Hour Correction

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