

Dual Pulse Timer 11

Model DPT11

DESCRIPTION

The Dual Pulse Timer 11 (DPT11) has one main power cable, one input, two power outputs, two user settable timers and accumulator triggers. The DPT11 monitors flow meters/sensors that produce a pulse signals and use these signals to govern its outputs. The outputs may be used to control metering pumps, valves or other actuators in a large variety of applications.

OPERATION

The DPT11 monitors the sensors that are attached and accumulates the pulses until the number of pulses is equal to the setting of the accumulator trigger. The outputs turn on for user defined periods.

There are two main modes of operation provided, they are the **Parallel mode** and the **Serial mode**. In **Parallel mode**, the input pulses are counted in two accumulators with independent settings. When each accumulator reaches its preset value, the corresponding power output is activated, regardless of the other accumulator/output state. Once the power output is activated, the cycle repeats. In **Serial mode** the input pulses are counted in only in accumulator 1. When the preset number of pulses are reached, output 1 is activated for the time set on timer 1. After output 1 deactivates, output 2 is activated for the period of time set on timer 2. Once output 2 is activated, the cycle repeats. A manually activated self-test procedure is built in.

INDICATORS

- "POWER" - Unit is connected to power.
- "INPUT" - Pulse input has been received.
- "OUT 1" - Power output 1 is active
- "OUT 2" - Power output 2 is active
- "OVERFLOW 1" - Output 1 could not complete its activation period due to a cycle reset caused by the accumulator reaching its preset value.
- "OVERFLOW 2" - Output 2 could not complete its activation period due to a cycle reset caused by the accumulator reaching its preset value.

Note: The overflow situation occurs when the timer is set for a long period, while the accumulator is set to a point, which is reached, in a shorter time than the timer period. This situation should be avoided.

SPECIFICATION

- Power 115VAC Nominal
- Accumulator Range 1 to 1270 Counts
- Timer Range 1 to 1270 Seconds
- Enclosure Glass-filled polycarbonate, 7" x 5" x 3"
- Max. Input Frequency 400 Hz (pulses/second)
- Input Debouncing 1 ms
- Relay Contact Rating 5A resistive at 115VAC
- Sensor Power 25mA at 12VDC nominal