

McBerns Pty Ltd

Digital Timing System

The McBerns Digital Timing System

The **McBerns Digital Timing System (DTS)** uses an **Idec Smart Relay** to limit the amount of water used by the **McBerns AutoWellWasher™**. Experience has shown that it is not necessary to run the Washer after every pump out, to keep a well clean.

The **DTS** activates the Well Washer during selected pump cycles, for a controlled period, to maximise the effect of the Well Washer but minimise water usage. The function of this device is to dramatically reduce water consumption, without compromising the cleaning effectiveness of the Washer.

In a standard installation the number of washes and duration of each is controlled by the sewerage pumps, in that the washer runs for the duration of every pump out. The **DTS** controls the number of washes per day and the duration of each.

The **key feature** is that it senses what the pumps are doing and will only allow the Washer to operate towards the end of the pump out cycle when the well is nearly empty, the walls and components are totally exposed. Thus a minimum number of washes is effective.



Trials have shown that a fatty pump station can be kept clean by a program of a 1 minute wash at 4 hour intervals using as little as 100 litres of water per day.

The **McBerns Digital Timing System (DTS)** has a second function as the controller for the **McBerns Dosing System**. In this mode, the pump sensing ability is disabled, allowing the dosing to occur independently of pump operation.

The **DTS** requires a 240volt AC power source and can control solenoids of various voltages. The unit is designed to be DIN rail mounted within in the pump station control cabinet.

Factory preset selections are:

Cycle time (frequency of operation): 4 hours

Duration time (solenoid open): 1 minute.

Delay setting (period after pump start before solenoid opens): 15 seconds

All these settings can be manually changed by operators on site.

McBerns Digital Timing System saves water, saves pump stations and it's infrastructure, saves time and maintenance costs.



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