HDC2000 – Hydrant Drive Card

MAX SUPPLY VOLTAGE **24VAC** MAX CURRENT MOTOR **3.5 Amp**

DISPLAY INFORMATION

P0 ACTUAL MOTOR CURRENT
(When Motor is running)

P1 LIMIT TORQUE SETTING
(Set with red tumbles)

P2 ACTUAL BATTERY VOLTAGE
(On Power OFF)

P3 ENCODER COUNTER (x100)
(The impulse counter x100)

P4 OPERATING STATUS
(Only for debug)

CONNECTION LIST

PIN	Function
01	24VAC Voltage supply
02	Earth
03	24VAC Voltage supply
04	(+) Positive Motor on Open
05	Earth
06	(-) Negative Motor on Open
07	Load Battery supply
08	GND
09	GND
10	GND
11	24VDC Unregulated
12	24VDC Unregulated
PIN	Function
13	Open Command Signal
14	Common
15	Close Command Signal
16	Hydrant Type
17	Common
18	Encoder Input Signal

CE

HDC2000 SETIINGS

E0 TOTAL IMPULSE OPEN (x100)
With this value you can set the maximal rotation of the motor from the last "CLOSE" sequence. When the motor reach the value that is set, it stop.
NOTE: Active only with Encoder active.

E1 NORMAL SPEED CLOSE
Set the speed of the motor in the close sequence. The speed is proportional to the torque (speed too low may be haven't enough power to close the hydrant)

E2 NORMAL SPEED OPEN
Set the speed of the motor in the open sequence. The speed is proportional to the torque (speed too low may be haven't enough power to open the hydrant)

E3 TOTAL IMPULSE ON HIGH TORQUE (x10)
When the hydrant was close, the motor torque for the first rotation is higher. With this value you can set for how many impulse the motor have to give the high power.
NOTE: Active only with Encoder active.

E4 TIME ON HIGH TORQUE
When the hydrant was close, the motor torque for the first rotation is higher. With this value you can set for how much time the motor have to give the high power.
NOTE: Active only without Encoder.

E5 RETRY OPEN
With this value you can specify how mach time the Motor have to retry to open if it reach the max. torque.
WARNING: too mach time can damage the hydrant.

E6 RETRY CLOSE
With this value you can specify how mach time the Motor have to retry to close if it reach the max. torque.
WARNING: too mach time can damage the hydrant.

E7 RETRY CLOSE IN BATTERY MODE
With this value you can specify how mach time the Motor have to retry to close if it reach the max. torque in battery mode (supply lost).
WARNING: too mach time can damage the hydrant.