

Computerised Water Dispenser



OVERVIEW

CWD 100 Prepaid water meter are extremely rugged and can be used with pulse output flow sensors. The instrument calculates the total flow and constantly checks for the remaining volume that can be transferred. Once the preset volume is transferred the instrument activates a motorized valve shutting OFF the line. The volume of water to be transferred can be loaded by means of a prepaid card. Once the card is inserted and removed the balance remaining in the card is transferred to the instrument and the balance in the card reduced to zero. Once charged the motorized valve is held open until the balance is exhausted

The volume of water that the customer has charged and all other parameters are stored in non-volatile memory that is protected from external access. This means that user cannot tamper with this data by any means.

Optionally these instruments have a RS485 communication port with MODBUS protocol implemented.



ADVANTAGES

- Rate of Flow, Total Flow
- Microcontroller signal processing
- 16 Chr. 2 Line Backlit LCD Display
- No missing pulses
- Variety of Sensor Fittings
- RS232/RS485 - MODBUS Communication
- Field Programmable through four keys
- Compact Size
- Operates motorized valve automatically
- Reed Switch input / Paddle wheel input





CWD 100 SPECIFICATIONS

Power supply	220 VAC \pm 10 %, 12 – 24 VDC (Factory settable only)
Power	1 Watt maximum
Indication	CFI 100 Series: 16 Character 2 Line Backlit LCD display
No of Channels	1
Signal Maximum	Reed Switch input: No potential on the inputs Open Collector input: Restricted to 12V maximum output from the unit TTL Input: Restricted to 5V input from sensor
Pulse Frequency	0 to 4Khz Maximum
Pulse Amplitude Protection	Protected up to 14 V Maximum Amplitude continuous
Output Power	5V /12V DC Regulated at 750 mA peak maximum (no fuse provided) Factory settable
Sensor Supply Regulation:	10 %
Zero and Span	NA
Conversion Type	Pulse Totalization
Operating Temperature	0 – 50 °C
Storage Temperature	0 – 60 °C
Humidity	0 – 80 non condensing
Program Variables	Saved in non-volatile EEPROM. No battery backup necessary. Data retention 100 years maximum
Programming Method	From keypad provided in the instrument
Housing	Panel mount 96mm x 96mm x 110mm

* Based on 1 manual reading per day. 1 upload to PC 3000 records maximum per month.