

AGS1135 Water Usage Monitor / Controller

- 2 year guarantee as standard
- British Design & Manufacture

Typical Application

- Water well usage monitor / Controller

Technical Specification

Function

Monitors the water usage, turns off the pump and activates 24Vac output for the solenoid if the daily allowance limit is reached within 24hr period. Internal programmable clock reset the system to start the cycle again every 24th hr.

Input

Volt free contacts from flow meter.
Other voltage pulses or analogue input available on request.

Pump Out

240Vac (16A max) Mains LIVE normally active and de-activated on Trip.

Override

Optional solenoid override available via Fixed 24Vac

Controls

P3: Internal 15 potentiometer to set allowance limit. Adjustment range 10 to 100% of input range.

Indicator

Power On: 5MM Green.
Trip: 5MM LED, Red = On
Pulse = 5MM LED, Green

Performance

Accuracy: < 1%
Trip settability: better than $\pm 1\%$
Trip repeatability: better than $\pm 1\%$
Resolution: FS = 4000 pulse
Power consumption: <4VA

Protection

Isolation 1000V RMS.
Inputs/24Vac/Supply/Earth
Internal Fuses + Fuse Covers.
Input over range up to typically 200%.
Flow count – 5 sec backup on loss of supply
Clock – 30 days battery backup
Enclosure: IP65



Display

3.5 digit LCD display, normally showing total flow, set limit can be viewed by pressing the push button in the same scale.

24Hr Timer/Clock

Time factory programmed to UK GMT time.
Alarm 1 is factory programmed to 00:00 Hr. The flow count will be reset to zero every midnight.
30 days battery backup.

Environmental Condition

Storage temperature: -40 to +70 °C
Operating ambient: -15 to +55 °C
Relative humidity: 5 to 95% RH

Mounting and Fixing

Dimension: 160W x 212H x 115D.
Fixing Centre – 145mm

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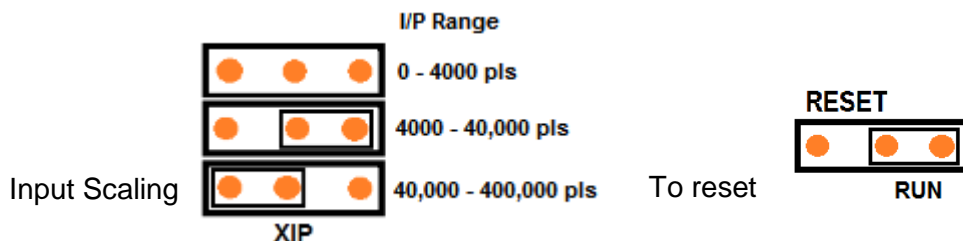
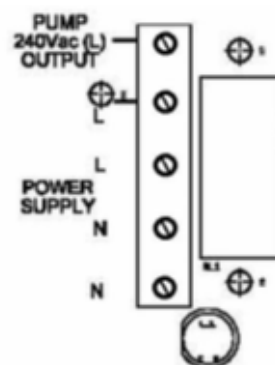
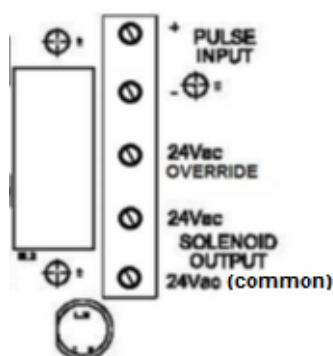
If required this product will be supplied fully calibrated and setup to your requirement, so no site calibration or setup is required. However if you need to make any adjustment please follow the instruction carefully on this page.

Safety Note:

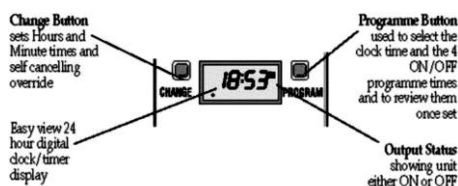
1. **High dangerous** voltage connected, therefore should only be installed by a qualified person.
2. Connect the equipment according to current IEE regulations and separate all Wiring according to IEC1010.
3. Make sure all screw terminals are tight before you switch the equipment on.
4. Don't touch any circuitry after you have connected the equipment to mains.

The equipment is designed for Pollution-Degree 2 environments only. This means you must install it in a clean, dry environment.

Wiring:



Clock / Timer



Battery

This product has a factory fitted rechargeable battery. If the time controller is left with its mains power switched off for more than 1 month the display may go blank. In this case switch mains on, wait 30 minutes, and apply reset - see 1 before programming.

Programming

Only two setting buttons are required, Change and Program. In normal use the Change button is used to switch ON or OFF, overriding the timeswitch until the next programmed OFF or ON time. During programming the Change button is used to set the hours and minutes. The Program button is only used when setting or adjusting the clock time or the 4 programmed ON/OFF times, although it can also be used to review the ON/OFF times once they have been set. Each time the Program button is pressed the display will flash either the hours or minutes in turn, starting with the clock then the first ON time, first OFF time, second ON time etc. Wherever the hours or minutes are flashing they may be set using the Change button. Once set the Program button is pressed again to proceed to the next stage.

Normal Operating Mode

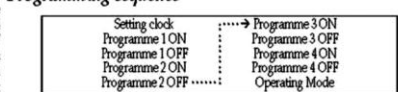
In normal operation the PanelMaster will display the correct time with the colon flashing. The output status will be shown by either ON or OFF on the display.

1 To Reset Display

To clear programmes from memory and reset the time controller press and hold down both buttons until the display goes blank. Release buttons and display will fill with its complete range of characters and then clear to show clock and hour digit flashing.

You are now in the clock setting mode at the beginning of the programme sequence

Programming sequence



Note: Button pauses greater than 1 minute during programming will result in automatic return to the operating mode.

2 Setting Clock (after reset)

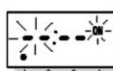
i **Hour Setting** - Press the <Change> button to advance the hour setting. Note: For rapid hour selections press and hold down <Change> button.



ii **Minute Setting** - Press the <Program> button once to select the minutes - display shows clock symbol and minute digits flashing. Press the <Change> button to advance the minutes setting. Note: For rapid minute selection press and hold down <Change> button. (Note: 16 hrs shown as example of hrs set)



iii Press <Program> button once - clock is now set and display shows ready for the first ON programme time with ON and hours digits flashing.



3 To Set Programme ON/OFF Times (after clock setting)

Programme 1 ON time

i Press <Change> button to advance the hour setting.

ii Press <Program> button once to select minute time - display shows minute digits and ON flashing. Press <Change> button to advance minute setting. (Note: 16 hrs shown as example of hours set).



iii Press <Program> button once - the first ON time is now set and display shows ready for the first OFF programme time.



iv Now set the hrs and minutes as before.

v Repeat steps i to iv to set the remainder of the 3 ON/OFF times as required. Note: Any unused ON/OFF programme should be skipped until the display shows normal operating mode. Do not programme '0's into unused programmes.

IMPORTANT After setting a clock time which falls within a programmed ON period, the unit will not switch ON. Use the Change button to switch unit ON. After this the unit will operate normally to the programmes set.

4. Programme Review

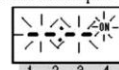
To fast review the set programmes or for quick exit to normal operating mode - press and hold the <Program> button.

5. Initiating Programme Mode

This can be initiated any time during the normal operating mode. Press <Program> button and the Clock symbol, hrs and minutes symbols on the display will flash - this is review mode. If any change to programmes is required press <Change> button to initiate programme mode and then follow steps 2 and 3.

6. Cancelling Programmes

Any ON/OFF programme can be cancelled by clearing its ON and OFF time. Follow step 5 and when into the ON or OFF programme to be cancelled press the <Change> button until the hour digits show --: then press the <Program> button to clear the programme. The display will show the hour and minute digits and ON or OFF flashing.



Self Cancelling Override

To change the output status from ON to OFF or vice versa during normal operation press the <Change> button. The output status will change and indicate override is in operation by flashing.