

UNIVERSAL RAIN SENSOR - USER'S GUIDE

Introduction

Congratulations on your purchase of the Pope Universal Rain Sensor for Tap Timers. The Universal Rain Sensor is designed for easy installation, so your sensor controlled tap timer system will be up and running in minutes.

Before attempting to install the Universal Rain Sensor, please read through these instructions in their entirety.

IMPORTANT! The Universal Rain Sensor must never be submerged in water or installed where flooding may occur.

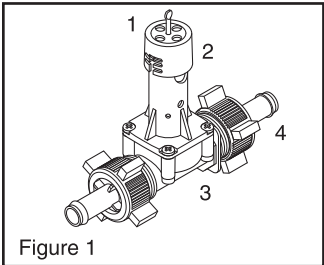


Figure 1

Universal Rain Sensor Components

1. Spindle – Press down to manually test sensor operation.
2. Rainfall Adjustment Cap – Enables sensor to be easily adjusted for detection of rainfall at various levels.
3. Flow Through Valve – Shuts off the flow of water if the rain sensor has been activated. Has two threaded ends that will fit a 20mm threaded Nut and Tail.
4. 20mm Nut and Tail – 2 Nut and Tails with 13mm barbed fittings are included in the pack. For 19mm systems you should use 20mm x 19mm barbed Nut and Tails.

Installation Instructions

Rainfall Adjustment

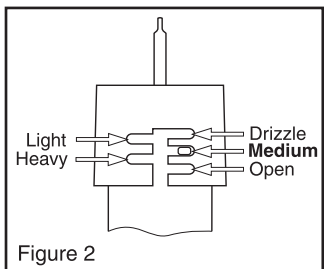


Figure 2

The Universal Rain Sensor can be adjusted in two ways

1. Open – The valve is fully open and will allow water flow regardless of rainfall. Use this setting to periodically flush your system, or in circumstances where you may need to bypass the Universal Rain Sensor. This should not be used as the 'every day' setting.
2. Nominal Rainfall – The rainfall adjustment cap can be set to detect nominal rainfall at four levels: drizzle, light, medium and heavy. The sensor is preset to medium rainfall which best represents average Australian conditions. By adjusting the Rainfall Adjustment Cap you can alter the amount of rainfall required to activate the Universal Rain Sensor.

To adjust, carefully rotate the Rainfall Adjustment Cap so the pins are positioned in the desired slots as shown in Figure 2. Be sure to align the slots and pins properly, as this adjustment does not require excessive force.

Fitting the Universal Rain Sensor

The Universal Rain Sensor can be retrofitted to any existing **above ground** system or to new above ground systems.

NOTE: If your system is **not** above ground, but **is** operated from a tap (and not the mains) as long as you have access to the poly pipe and can find a suitable place for the Universal Rain Sensor, you can still use this product.

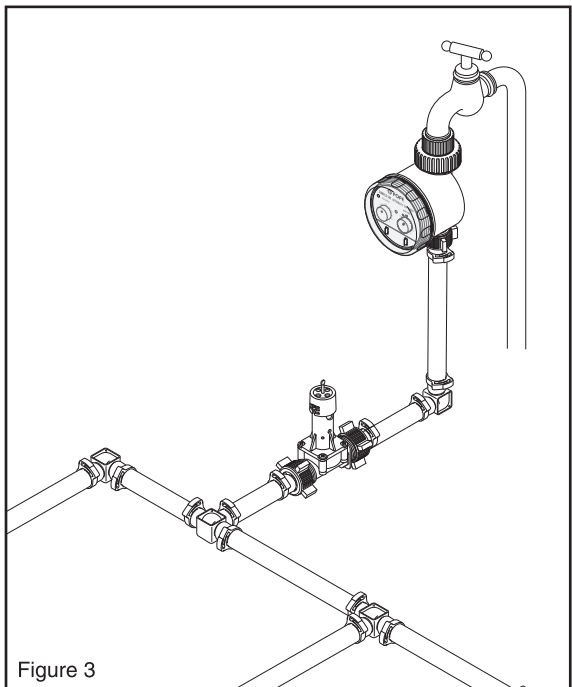


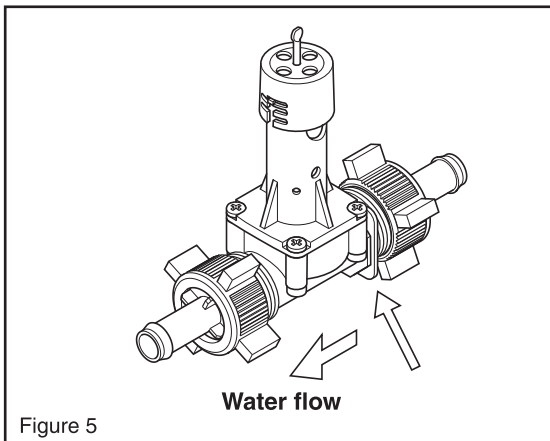
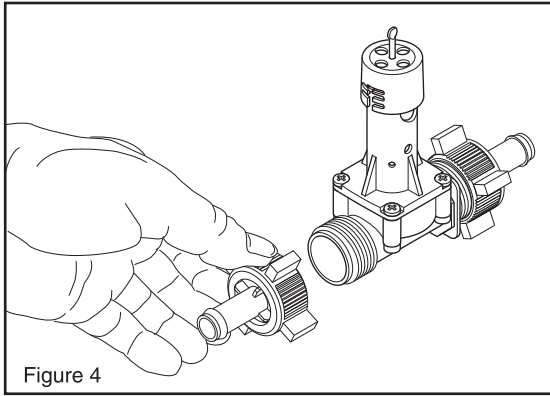
Figure 3

The Universal Rain Sensor comes with two 20mm x 13mm Nut and Tails, which are suitable for use with 13mm systems. In addition you will need two 13mm ratchet clamps.

1. Select the most appropriate place for the Universal Rain Sensor to be located in your system. The location must be away from sprinkler spray, exposed to unobstructed rainfall and have similar sun exposure as the landscape being watered.

If you have multiple zones that are being watered, the Universal Rain Sensor should be positioned before the system is separated into different watering zones.

2. Set the desired rainfall amount on the Rainfall Adjustment Cap (see Figure 2 above for more detail).



3. For 13mm systems firmly attach the two Nut and Tails supplied with the Universal Rain Sensor (see Figure 4).
4. Cut the poly pipe cleanly to fit the Universal Rain Sensor and connect it by pushing the barbed fittings into the poly pipe.
5. It is critical that the Flow Through Valve is correctly positioned with the flow of the water. The end with the squared moulding should be positioned to accept the first flow of water. This will follow the direction indicated by the arrow on the underside of the Universal Rain Sensor (see Figure 5).
6. Once in place, use a 13mm ratchet clamp on each barbed fitting to secure the fitting.

NOTE: 19mm systems. The Universal Rain Sensor can also be used with 19mm systems. You will need two 20mm x 19mm Nut and Tails as well as two 19mm ratchet clamps.

Operation

Testing the Installation

In order to test the installation of the Universal Rain Sensor, turn on your system from the tap so that watering is visible from the installation location.

With the system on and water flowing, manually activate the Universal Rain Sensor by pressing and holding the spindle at the top of the unit. Watering should shut off within a short time.

Normal Operation

When the Universal Rain Sensor activates due to sufficient rainfall, the watering system will remain inactive until the hygroscopic discs inside the sensor have dried out. This dry out rate will be about the same as your soil's drying rate and allow for watering activation once the soil is dry enough to be watered again. After the Universal Rain Sensor "dries out", the tap timer will resume its normal watering schedule.

Specifications

Sensor Type: Industry standard hygroscopic disc stack with adjustable rainfall sensitivity.

Valve Type: 19mm mini-barb with diaphragm operated valve control and 20mm BSP threaded ends.

Operating Temperature Range: -4°C to 60°C

Maximum Pressure Rating: 400kPa. In higher pressure areas use a pressure reducer from the tap.

GUARANTEE

You must keep your receipt as proof of purchase for return of the product under the terms of this guarantee.

Your Pope product is guaranteed to be free from defects in materials or workmanship for a period of 12 months from the date of purchase provided the product has been used in accordance with the manufacturer's recommendations.

If the product becomes defective within the warranty period we guarantee to either replace or repair the product at our option, provided that:

The product is returned to the place of purchase with evidence of purchase ie the receipt

The product is used for general household use only

The product has been used with mains water, and not with systems using a pump or a bore or in areas where water pressure exceeds 400kPa.

Repairs, alterations or modifications have not been attempted to the product

The failure is not as a result of normal wear and tear

Failures due to obvious abuse or due to usage not in accordance with instructions and recommendations contained in this manual are not covered by the product guarantee.

Our obligation under this guarantee is limited to the repair or replacement at our option, of the product within one year from the date of purchase. In the interest of better quality we are constantly updating our product. Consequently the picture on the packaging and in this Users Guide may differ from the model enclosed.