

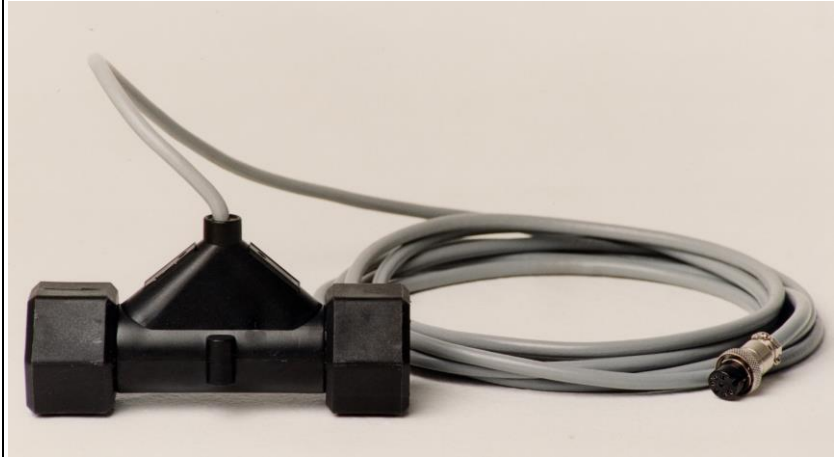
DESCRIPCION:

CODE: 06140150

Sensor HI 7635 to measure electrical conductivity in the irrigation water line.

The sensor is molded reinforced polypropylene probes with pipe threads at both ends of 1". It is a tubular body that it makes easy to hookup.

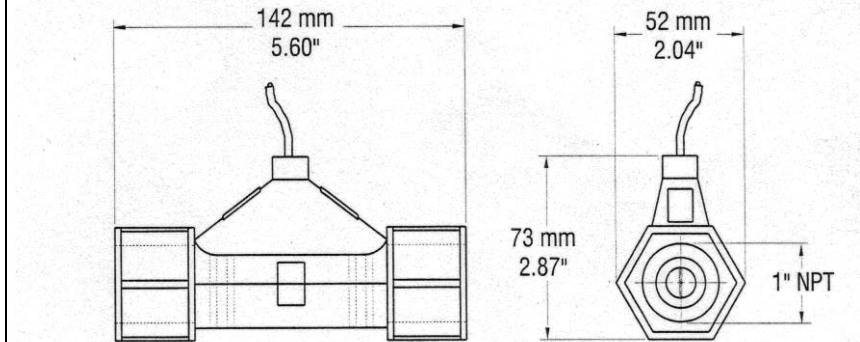
It uses the 4-pin potentiometer method which requires little maintenance. The probes works with pressures and temperatures of up to 5 bar and 80°C respectively, and also incorporates an NTC sensor for automatic temperature compensation.



It is supplied with 3 meters of screened multiwire cable, with female connector of 7 contacts to easy connection to the EC or pH/EC transmitter made by PROGRES. The transmitters allows us to do the conversion of the sensor values to the real and readable values to the irrigation controller.

TECHNICAL CHARACTERISTICS:

Dimensions



Longitude	142 mm
Height	73 mm
Width	52 mm

Temperature compensation Automatically from 0 to 50 °C

Body Polypropylene

Properties of work	Work temperature	0 a 80 °C
	Maximum pressure	5 BAR (72.5 psi)
	Weight	430 g.

INSTALLATION:

- We have two different systems of installation:
 - In line, with the total flow going through the sensor. This limits the flow to very small values and even the work pressure system. In this sensor the maximum pressure is 5 bars.
 - In derivation according to the principal irrigation pipeline, that is the most common and usual method. With this method you can avoid working with high flows and high pressures, avoiding pressure reducer. Also we are able to irrigate even if we have some problem or if we have to replace the sensor.
In the way to avoid reading problems, we have to produce a minimum derivation that it has to be at least, 1 meter between the input and output sensor.

In both cases we have to follow the water way, according to the indications as we can see on the sensor body.

MAINTENANCE:

- Periodically, and always at the start of the campaign, it will be realised the contacts cleaning, due to the possible incrustations, by friction or chemical methods.
- It could be convenient take out the protector in the way to facilitate the work, but always taking care due to fragility of the contact hanger.
- Periodically, at the start of the campaign, it has to be realised a contactors sensor cleaning for the possible incrustations, by chemical methods or by friction.
- It would be convenient take out the protector in order to facilitate the work, but always being very carefully due the contactors hanger fragility, because it can be broken easily.
- Once it is cleaned, the sensor will need to be recalibrated in two points by means of transmitter: ECO when the sensor is empty (offset) and EC5 (gain). It will be necessary to repeat the steps until you will get in this two points a correct reading.
- To get a correct working and a high durability of sensor, it has to be respected the margins described on the work properties.

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