

AUTOMATISM TO CONTROL TANKS and WELLS I-61



TECHNICAL CHARACTERISTICS

Voltage.....	12 V. DC..
MinimumConsumption.....	10 mA.
MaximumConsumption.....	60 mA.
Maximumallowed load.....	5 A.
Protection against polarity inversion.....	Yes.
Sizes.....	68 x 57 x 30 mm.

The I-61 module is an automatism to control tanks and wells level. It also could be used for water extraction in wells and similar selecting the required mode. It has a relay output and includes a probe to detect water, indicator led and terminal connection to make more easy the assembly

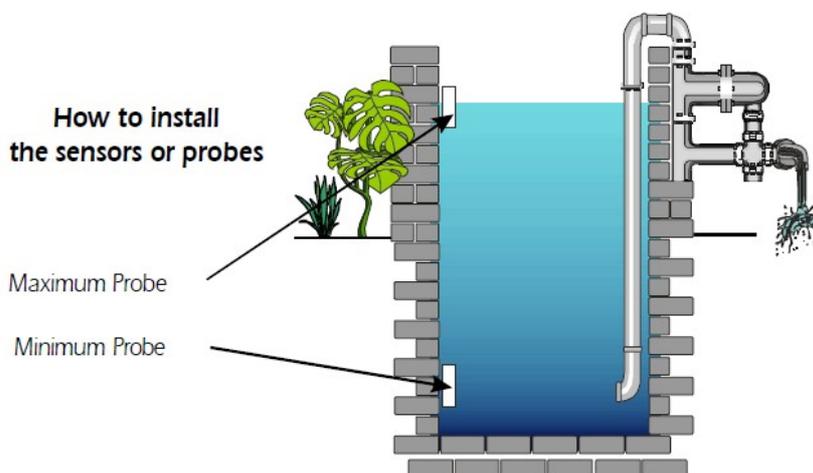
OPERATING

POWER SUPPLY.The I-61 circuit had to be supplied by a 12 VDC power supply correctly filtered. We recommended tou the FE-2 power supply which has been developed to perfectly answer to the circuit needs. Connect the positive of the power supply to the positive terminal indicated in the wiring map, then connect the negative of the power supply to the negative terminal indicated in the circuit. Verify that the assembly is correct and don't supply the module before to read the rest of the instructions manual.

OPERATING. The I-61 module's operating could be basically divide in two modes or functions : The well function and the tank function. Connect maximumand minimumprobes as it is indicated in the General Wiring Map and at the position where you wish to control water level

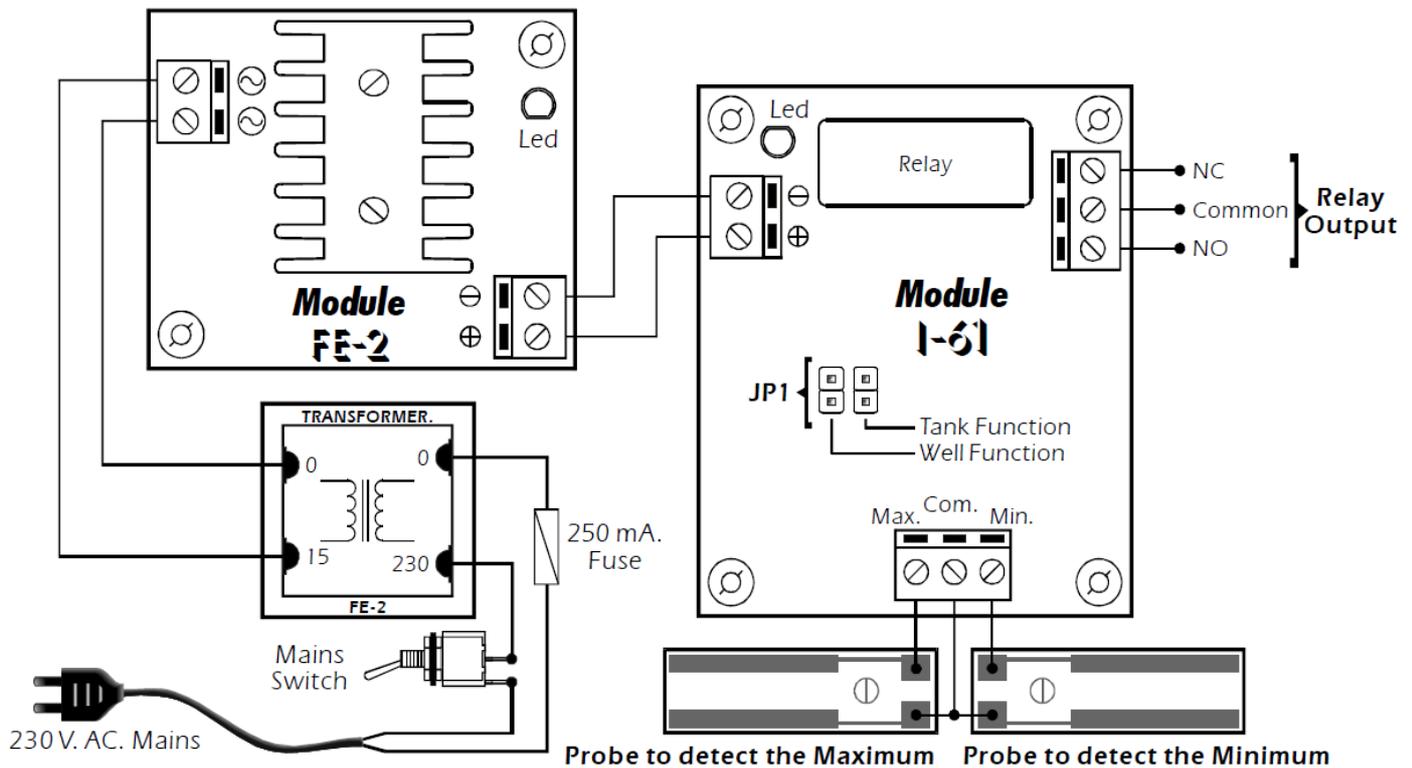
WELL FUNCTION. Thanks to this function the I-61 module could automatically control the water extraction avoiding that the water level decrease under a minimum or increase over a maximum. To configurate the module according to this function you have to remove the JP1 jumper to close terminals correspondning to this function. See the General Wiring Map. When water will arrive at the maximum determinate level, the module activates the output connecting the relay to start the water extraction. Then, after several minutes, the water level will decrease again and when it will arrive at the minimumdeterminate level it deactivates the output relay. The I-61 will wait again that the water reach the maximum determinate level to repeat the process

TANK FUNCTION. Thanks to this function the I-61 module could automatically control the water filling avoiding that the water level decrease under a minimumor increase over a maximum. To configurate the module according to this function you have to remove the JP1 jumper to close terminals correspondning to this function. See the General Wiring Map. When water will arrive at the maximum determinate level, the module activates the output connecting the relay to start the water extraction. Then, after several minutes, the water level will decrease again and when it will arrive at the minimumdeterminate level it deactivates the output relay. The I-61 will wait again that the water reach the maximumdeterminate level to repeat the process



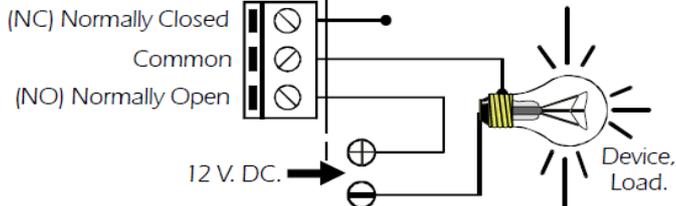
OUTPUT CONNECTION. The I-61 output is controlled by a relay, and accept any device up to 5 A. The relay have three output terminals: The normally open quiescent (NO), the normally closed quiescent (NC) and the common. This mechanism operate like a switch with two terminals NO and Common. For the inverse function you have to use the NC and Common. In the drawing hereafter, you could see a typical connection with a 12 V D.C and 230 V A.C devices.

GENERAL WIRING MAP.

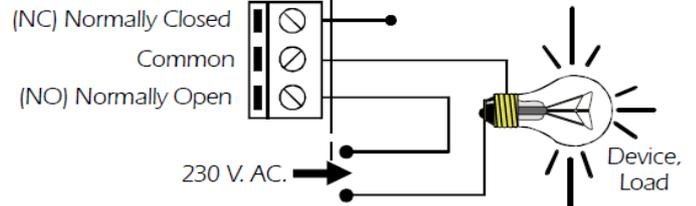


OUTPUT CONNECTION. LOAD.

12 V DC CONNECTION



230 V AC CONNECTION



INFORMATION ABOUT THE OUTPUT. During the operating mode and according to its load, it could happen a fluctuation or an incorrect working of the output. In such case, you have to install an anti-spark circuit with a 100nF/400 V., X2 type capacitor and a 47 ohms 1/2W resistor, between both used contacts of the relay, as it is indicated on the schedule.

