



FANOX NEWS

Electricity History

Marzo 2007

In 1752

Benjamin Franklin (1706-1790) proved the electrical nature of lightning. He developed the theory that the electricity is a fluid existing at the substance and its flow is caused by its excess or defect in it. He invented the lightning arrester. In 1780 he invented the bifocal glasses.



Fanox new product

Temperature and Process Controllers



Fanox **serie TP 7** offers a complete range of temperature and process controllers, that provides a fast and precise automatic control by PID action improved with FUZZY logic.

Our range of controllers is available into several sizes: **TP 720** (48x48), **TP 731** (48x96), **TP 750** (96x96). Their usage is easy.

The **serie TP 7** has got a wide range of voltage auxiliary supply: 85-265 Vca (50/60 Hz), signal input is possible to be selected among 8 types of thermocoupler inputs, 2 types RTD's inputs and mV or mA inputs, the outputs allows to combine contacts, voltage pulses and analogic signals and besides they got the option to incorporate 2 alarm relays.

The control method used can also be selected between the options ON/OFF, PID + Autotuning or PID + FUZZY + Autotuning. Autotuning function provides an automatic adjustment of parameters of PID action.

Optionally, the equipment can be communicated through RS485 by ModBus protocols RTU or ASCII.

The **controllers TP 7** are adequated for their usage in industries, plastic and paper treatment industries, clothes industries, food industries, ... and applications like oven manufacturing, machine-tool, valves control, limit control, and other types of processes.

If you are interested in receiving further information please contact:

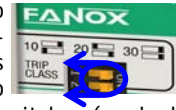
export@fanox.com or tel. + 34 94 471 14 09

Fanox Tips

Current adjustment in fewer than 10 steps

You have not got available clamps meters, you don't know motor current and you want to install Fanox motor protection relay (C, GL, B, BG, P, PF). You can adjust the motor working current (aproximately) at the relay easily using the own relay as measure element:

1. Adjust trip of relay according to its application (Ex. Trip Class 10).
2. Adjust relay current I_B to its maximum value (Ex. C21 = 21 Amp). Afterwards, start the motor with its standard conditions.
3. After starting phase to avoid mistakes wait 1 minute, adjust the trip class at Trip Class 00. To do that, please move all dip switches (marked in black) to left of the relay.
4. Step by step you will decrease I_B . When the overcurrent value is reached the relay will trip by overload.
5. Alter tripping please disconnect the motor and adjust again Trip Class value for Standard working conditions
6. Please take note of value I_B detected by the relay (sum of minimum value of adjusting relay and the Dip switches situated to the right).
7. Do this value per 1,1 (Ex $I_B = 10$ Amp., you will have $10 \times 1,1 = 11$), the result corresponds to the aproximated working current of motor. You have to adjust I_B to this value.
8. Fanox relay is ready to protect your motor.



Not everything is working: **Chicken "Paella" 6/8 people**



1 chicken of 1 kg weight in little pieces, 200 gr of green beans into pieces, 100 gr onion into pieces, 2 cloves of garlic, 1 green pepper into little pieces, 2 soft tomatos peeled and cut into pieces, 800 gr of rice, 2 l of meat clear soup, "azafrán", salt, 3 dl of extra olive oil.

1. Pour oil into a "paellera" and when it is hot, put the vegetables and mixing with the oil during 5 min.
2. Put the pieces of chicken and mix it with the oil and vegetables during 5 min turning around so all pieces get the same colour.
3. Put the rice to be fried during 1 min altogether with the rest of ingredients moving it continuously. Take note of the time.
4. Pour the clear soup boiling.
5. Taste the clear soup and put the salt as you like.
6. Since you put the rice you should keep everything for 20 minutes boiling at low fire.
7. Afterwards, take it out of the fire and leave it 8 min resting to be finished the cooking.
8. Serve it.