



**S.C. IPA S.A.**  
Sucursala CIFATT Craiova



**Societate comerciala pentru cercetare, proiectare si productie de echipamente si instalatii de automatizare**

**Str Stefan cel Mare Nr 12, Craiova, cod 200130, Tel / Fax: 0251 418882; 0251 412290; 0251 412775;**  
**e-mail: [office@ipacv.ro](mailto:office@ipacv.ro); web site: <http://www.ipacv.ro>**

Sediul Central: Calea Floreasca Nr 169., Cod 014459, Sector 1, Bucuresti, Tel : 021 3161616; Fax : 021 3161620  
Inregistrare RC: J40/6202/1991, Cod Fiscal: RO1570298, Forma Juridica: SA, Capital social subscris si varsat: 589.427,4 lei

## **Efficient running of the water pumping stations witch belong to public administration, implementing the up-date solutions**

### **Despatching of drinkable water feeding**

The soft-ware programmes acquires and processes the data from pressure and level sensors which are placed in the water pipe (pressure sensor) and in the water basins (level sensors). In this way, we know the water level in basins and the water pressure in pipes. The system consist in two distinct parts: the acquisition/control equipment and the system software (Microsoft Windows running).

### **Features of the data acquisition equipment:**

- Number of analogue inputs: 8 within ( 4 .. 20) mA signal range
- Number of analogue outputs: 1 within (4 .. 20) mA signal range
- Number of digital outputs: 3 (relay type)running-Manually/Automatically:
  - Manually: the user sets a pressure value; the control unit keeps constant this value controlling an inverter (control:4..20mA); the setting loop is opened.
  - Automatically: the user writes a parole and sets a pressure value witch we want to keep constant; the automatic controlling loop, between inverter and sensor, is closed.

### **Features of the software:**

- Server capacity \_RS232 / RS485\_TO\_TCP\_IP (any user, in LAN/WAN has access to all the data provided by Server type application (real time monitoring possibility)
- Communication with data acquisition equipment is realised with RS232/RS485 serial interface- 2.5 KV galvanic isolation, baudrate ? maxim 115200 , agree with the intern protocol.
- monitoring of the technologic process.
- recording of the data in a data base witch contain tables showing : \* time evolution, trigger overvalue (e.g. Alarme.dbf)
- signals acquisition from transducers and data digital processing.
- sampling rate is variable and selectable by user
- adjustment of the acquired data within the technological limits, warning in case of over limits;
- printing the supervising certificate and specific reports.
- transmitting of the acquired data to dispatcher to eliminate or minimize the bad effects on technological process.