RadioComCE Description

The user interface: a menu system and dialog boxes.
The application launch and execution: only based on a user password.
Certain menu items can be disabled depending on the rights of the current user.

English version	Romanian version

The communication between the Psion Workabout Portable Terminal and the gas meter or the water meter can be performed in two ways:
- Through an internal radio module
- External radio module (RS232 interface).

The communication between the Psion Workabout Portable Terminal and the PC (from the center) is performed through a special Dock-Station device (with the purpose of loading the chargers of the portable terminal and the data transfer).

MAIN FUNCTIONS

1. DEVICE READING
   - Current data reading (RADIO)
   - Manual introduction of the current data

2. DEVICE PROGRAMMING
   - Parameter programming

METER READING

1. Individual reading
   - by selection out of the list
   - by manually introducing the meter series.
2. Multiple reading
   - all the meters on the list
   - the unread meters on the list

The successful reading operations have as a result the storage of the read data in files with names of the type Series_meter and their display in the display area.
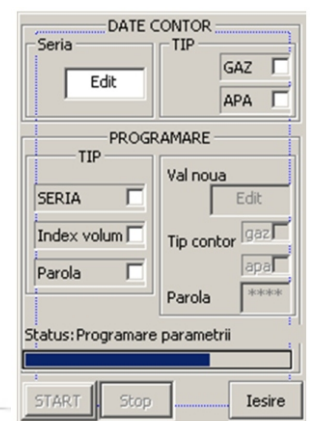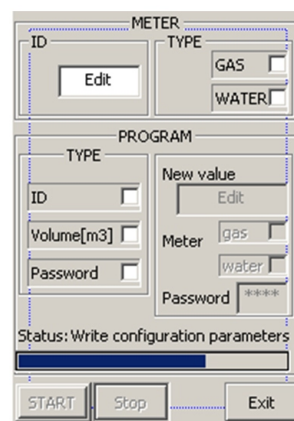An error occurred during the communication process has as a consequence the termination of the process and the warning of the user through an error message.

Data read:
- identifier (series)
- volume index $[m^3]$
- warnings
  - (interrupted cable
  - Short-circuited cable
  - External magnetic field)
- date and time of reading

Parameter programming
- Series (meter identifier)
- Volume index
- Password

The RadioComPC program allows:
- the transfer on a PC of the data found in the memory of the PSION portable terminal, the storage of such data in an Access database and the viewing of the database.
- the configuration of the passwords and of the consumer lists.

Features:
- Windows –type intuitive interface
- Runs on Windows XP or later operating systems
- Password-base access

Functions:

A) The creation/editing of a new list

Consumer profiles:
1. Address (name, residence)
2. Meter type
3. Meter series
   The edited list files can be exported in order to be used by the RadioComCE program which runs on PSION.

B) Creation/editing of the user profiles

User profiles:
1. Username
2. User password
3. Associated rights

The edited user file can be exported in order to be used by the RadioComCE program which runs on PSION.

C) Data transfer from the HHU to the PC

The transferred files are successively uploaded into the display area of the program and can be viewed in the list box of the dialogue box.

The format of the files created by the RadioComCE application is compatible with the RadioComPC program.

The current transferred data are automatically saved in the PC in an Access database.

D) Data viewing

Depending on the selection which is operated in the main window:

    a) Consumer

Nr	Description	Volum[m3]	Eveniment	Data_oraContor	Data_oraTransfer	Tip_Citire
	Apostol C					
	00010608					
	GAZ					
	bl.7 sc.D ap.02 str.REPUBLICII3					
1		1.345		12.03.2008-10:59	17.03.2008-14:40	RADIO
2		2.234		13.03.2008-11:20	17.03.2008-14:40	RADIO
3		3.123		14.03.2008-11:23	17.03.2008-14:40	RADIO
4		4.023		15.03.2008-13:09	17.03.2008-14:40	RADIO
5		4.900		16.03.2008-14:12	17.03.2008-14:40	RADIO
6		5.654		17.03.2008-14:15	17.03.2008-14:40	MANUAL
7		6.870		18.03.2008-14:23	21.03.2008-11:25	RADIO
8		9.870		19.03.2008-09:30	21.03.2008-11:25	RADIO
9		10.030	Intrerupere	20.03.2008-09:40	21.03.2008-11:25	RADIO
10		10.998		21.03.2008-09:41	21.03.2008-11:25	RADIO
11		11.598		22.03.2008-12:41	28.03.2008-11:59	RADIO
12		12.120		23.03.2008-13:21	28.03.2008-11:59	RADIO

    b) Date and time of the transfer

Nr	Data_oraTransfer	Consumator	Locatia	SeriaContor	TipContor	Volum[m3]	Eveniment	Data_oraContor	Tip_Citire
	28.03.2008-11:59								
1		Apostol C	bl.7 sc.D ap.02 str.REPUBLICII3	00010608	GAZ	11.598		22.03.2008-12:41	RADIO
2		Ionescu M	bl.7 sc.A ap.05 str.REPUBLICII3	00010008	GAZ	15.678		22.03.2008-12:45	RADIO
3		Georgescu C	bl.7 sc.E ap.03 str.REPUBLICII3	00012808	GAZ	8.543	Magnet	22.03.2008-12:49	RADIO
4		Ionescu M	bl.7 sc.A ap.05 str.REPUBLICII3	00010008	GAZ	16.234		23.03.2008-12:47	RADIO
5		Georgescu C	bl.7 sc.E ap.03 str.REPUBLICII3	00012808	GAZ	8.543		23.03.2008-12:49	RADIO
6		Apostol C	bl.7 sc.D ap.02 str.REPUBLICII3	00010608	GAZ	12.120		23.03.2008-13:21	RADIO
7		Georgescu C	bl.7 sc.E ap.03 str.REPUBLICII3	00012808	GAZ	9.443		24.03.2008-10:20	RADIO
8		Ionescu M	bl.7 sc.A ap.05 str.REPUBLICII3	00010008	GAZ	16.834		24.03.2008-13:23	RADIO
9		Georgescu C	bl.7 sc.E ap.03 str.REPUBLICII3	00012808	GAZ	10.343		25.03.2008-10:20	RADIO
10		Ionescu M	bl.7 sc.A ap.05 str.REPUBLICII3	00010008	GAZ	17.534	ScurtCircuit	25.03.2008-13:23	RADIO
11		Georgescu C	bl.7 sc.E ap.03 str.REPUBLICII3	00012808	GAZ	10.980		26.03.2008-10:20	RADIO
12		Georgescu C	bl.7 sc.E ap.03 str.REPUBLICII3	00012808	GAZ	11.598		26.03.2008-13:20	RADIO
13		Ionescu M	bl.7 sc.A ap.05 str.REPUBLICII3	00010008	GAZ	18.514		26.03.2008-13:25	RADIO
14		Ionescu M	bl.7 sc.A ap.05 str.REPUBLICII3	00010008	GAZ	19.414		27.03.2008-13:25	RADIO
15		Ionescu M	bl.7 sc.A ap.05 str.REPUBLICII3	00010008	GAZ	19.940	Intrerupere	28.03.2008-08:25	RADIO

The content of the view area of the data in the main window can be:
- Exported to text files format
- Exported to Excel file format
- Copied to clipboard
- Printed on the system printer

PSION features

Hand-held Computer
- Color Touch Screen Display
- 64MB Flash
- 128 MB RAM

Processor
- 400MHz Intel XScalePXA255

Operating system
- MicrosoftWindowsCE.NET4.2

Maximum number of consumers memorized by the HHU (for a 64M memory):
Gas and water: minimum 100,000 consumers