



TAPPING MEASUREMENT AND INFORMATION SYSTEM LOMEX for self tapping tables in premises (beer bars)

Operated for example as a separate part of a restaurant (salon) for friends of good beer, without waiting for the attendant and with sustainable foam for self consumption.

The system is conceptually designed for modular implementation of the project in two versions. Both variants are based on needs to determine quantities of the tapped drinks on a concrete table, or to determine quantities of the tapped drinks for each of guest round the table.

A. Variant PARTY SYSTEM

Tapping measurement and information system without distinction payments of guests at the tables. The consumption of guests at the table will take place on a drinking ticket - account.

B. Variant PERSON SYSTEM

Tapping measurement and information system with individual accounts of guests at the tables. Each guest has a drinking ticket.

PARTY SYSTEM

Tapping measurement and information system of the company LOMEX Blansko, Czech Republic, www.lomex.cz.

1. Usage

Modern technologies for the management of activities at the premises with their own tapping guests at the tables. The project is implemented as a separate part of an attractive restaurant (salon) for friends of good beer, without waiting for the attendand and with sustainable foam for self consummation.

Complete technology of the self tapping tables in the establishment has two parts:

- Distribution of beer and cooling - installed by a company providing assembly distribution of beer
- Tapping measurement and information system LOMEX - installed by the company Lomex Blansko

2. Properties

in terms of operators:

- Complete overview of tapping drinks
- Increases the attractiveness of an establishment
- Less requirements on the number of staff and its qualifications
- Simple sanitation, minimum loss of beverages

in terms of guests:

- There is no need to wait for service
- Tapping at any time, beer is still with foam
- Accuracy guarantees compliance with the payment amount of tapping

3. Configuration, description

PARTY SYSTEM is tapping and information system for registration quantity of tapping drinks for self-tapping tables, without distinction quantity of consumption and payments among the guests at the table.

It is based on the food flowmeter LXP6 (Fig. 1) whose design starts from a unique solution of flow sensors which are fully based on an electronic principle, without moving parts (no propeller).

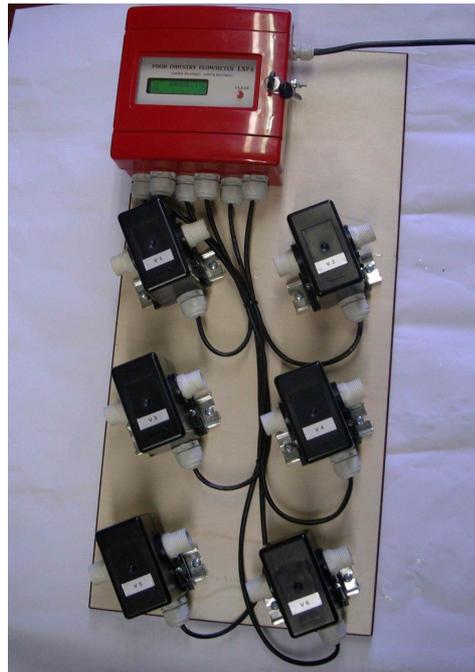


Fig.1 Food flowmeter LXP6 with six flow sensors

The measuring part of the sensor is of a smooth circular cross-section (Fig. 2), the same as applied pipes.

Compliance with the smooth internal cross-section of flow sensors is the a basic philosophy applied for the design of the meters of the LOMEX company. It enables standard sanitation of the entire system (cleaning ball). Nothing is to be removed, flow sensors are cleaned at the same time at cleaning the entire pipeline with a minimum loss of beverages.



Fig.2 View into the measurement part of the flow sensor

The food flowmeter LXP6 is connected with the control PC with a keyboard and a LCD monitor of the premise manager (Fig.3) via the bus RS485.

The premise manager uses the the PC for all management activities with PARTY SYSTEM, such as zeroing measured quantities, entering prices for drinks, overview of payments, etc.



Fig.3 Monitor of the premise manager

LCD monitors located above the self tapping tables (Fig.4) are also connected to the PC. The LCD monitors above self tapping tables show the number of the table, the tapping quantity (vertical commas) and the price of the tapping quantity.

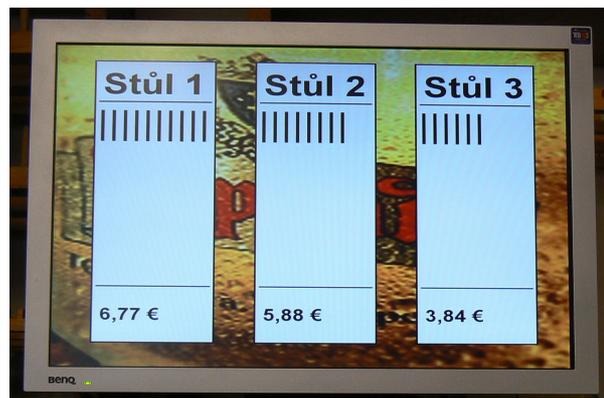


Fig.4 Monitor above the self tapping tables

4. Using PARTY SYSTEM

Using the keyboard and the LCD monitor, the premise manager resets the state counter of the tapping quantities of beer and thus amount of payments of a particular table. The LCD monitors above the self tapping tables will also display a nulled state. The table is now ready for guests. When the tapping begins, the LCD monitor above the table will show number of tapped beers and an adequate payment. At the end of the party at the table, the guests will jointly participate in the payment.



PERSON SYSTEM

Tapping measurement and information system of the company LOMEX Blansko, Czech Republic, www.lomex.cz

1. Usage

Modern technologies for management of activities at the premises with guests at the self tapping tables. The project is implemented as a separate part of an attractive restaurant (salon) for friends of good beer, without waiting for the attendant and with sustainable foam for self consummation.

Complete technology of self tapping tables in the establishment consists of two parts

- Distribution of beer and cooling - installed by the company providing the assembly and distribution of beer
- Tapping measurement and information system LOMEX - installed by the company Lomex Blansko

2. Properties

in terms of operators:

- Complete overview of tapping drinks
- Increases the attractiveness of an establishment
- Less requirements on the number of staff and its qualifications
- Simple sanitation, minimum loss of beverages

in terms of guests:

- There is no need to wait for service
- Tapping at any time, beer is still with foam
- Accuracy guarantees compliance with the payment of personal quantities of personal tapping

3. Configuration, description

PERSON SYSTEM is a tapping and information system for registration of tapping quantity of drinks at tables with self tapping, with individual guest accounts at the tables. Each guest has a drinking ticket.

It is based on the food flowmeter LXP6 (Fig. 1) whose design starts from a unique solution of flow sensors which are fully based on an electronic principle, without moving parts (no propeller).



Fig.1 Food flowmeter LXP6 with six flow sensors

The measuring part of the sensor is of a smooth circular cross-section (Fig. 2), the same as applied pipes.

Compliance with the smooth internal cross-section of flow sensors is the a basic philosophy applied for the design of the meters of the LOMEX company. It enables standard sanitation of the entire system (cleaning ball). Nothing is to be removed, flow sensors are cleaned at the same time at cleaning the entire pipeline with a minimum loss of beverages.



Fig.2 View into the measurement part of the flow sensor



Fig.3 View into the open valve

The food flowmeter LXP6 is connected with the control PC with a keyboard and a LCD monitor of the premise manager via the bus RS485.

4. Using PERSON SYSTEM

After entry into the lounge, the guest inserts his estimated amount of consumption into the paper money and coinage reader (Fig.4).



Fig.4 Paper money and coinage reader

By pressing the control button, the guest confirms the amount and the printer (Fig.5) prints the individual drinking ticket in barcode (Fig.6) with an amount of credit.



Fig.5 Printer and drinking ticket in barcode



Fig.6 Drinking ticket

Now, the guest may sit down at any table with self tapping. After application of the ticket in the barcode scanner (Fig.7), placed near the tap on the table, the guest starts login to tap.

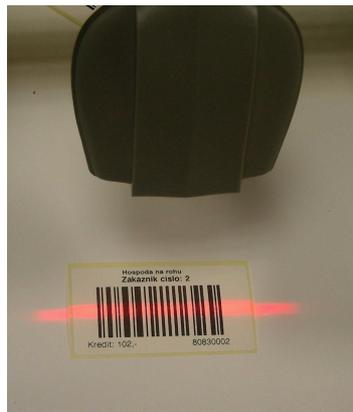


Fig.7 Barcode scanner above the table

The LCD screen above the table will display the zoomed ticket with information about the tapping quantity and the remaining credit (Fig.8, Fig.9).



Fig.8 Monitor above the table

Tapping is possible only during the period when the ticket is inserted into the barcode scanner (Fig.9, Fig.10).



Fig.9 Monitor over the table after inserting the label under the scanner - login

After withdrawal the ticket the tapping automatically stops. Re-attaching the ticket the tapping continues. The guest can also transfer to another table and continue in tapping. The LCD monitor of a specific table displays tickets of all the guests at the table. If the credit is empty and the guest wants to continue in consumption, it must use the paper money and coinage reader again and print a new drinking ticket.



Fig.10 Monitor over the table number 2 after tapping.

Example of display screen:

Tapping 0.07 litre, which is 0.14 beer and the remaining credit is EUR 99.28.

A LCD monitor located near the PC is used for an overview and management of all activities in PERSON SYSTEM (Fig.11).

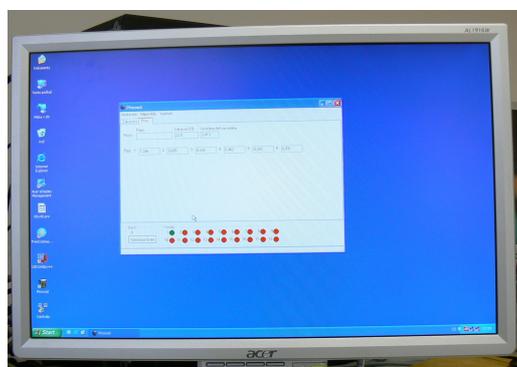


Fig.11 Monitor service manager with an overview of all tables

Activities related to the operation of the PERSON SYSTEM from the side of the premise manager are described in a separate user instructions.