

CW-482x **ASI DISTRIBUTOR** CW-483x **ASI SELECTOR**

USER'S MANUAL

Dear User!

Thank you for your trust in our company, expressed by buying our product. We believe your new equipment will come up to your expectations and through faultless operation it will justify your decision.

We would like to support you in your work by summarizing here all the instructions related to the installation and use of the unit.

1. Mechanical construction

The **ASI DISTRIBUTOR** and the **ASI SELECTOR** is accommodated in a standard 1 unit high 19" rack frame. The unit is delivered along with the following accessories:

1. Spare fuse T1.25 A
(placed in the fuse holder mounting) 1 ea
2. Power cord 1 ea

When mounting into rack, in order to prevent overheating, mount a CW-4004 vented cover plate below the **ASI DISTRIBUTOR** and the **ASI SELECTOR**. Do not block the ventilation of the unit by covering the perforation on its cover plate.

2. Electrical construction

The **ASI DISTRIBUTOR** distributes the serial digital data stream (Transport Stream) to multiple units. The ASI Distributor series is based on an ASI module with loop-through input, an other ASI module with double output and a unit providing the linkage between them. Using these elements, ASI distributors with 3, 5, 7 ... 17 outputs can be built. The input module with loop-through input repeats at its ASI output the input signal after shaping, at the level according to the standard. The module decodes the input signal to parallel TS and leads it to the output modules.

The ASI module with double output encodes the parallel TS to ASI, according to the ASI requirements and drives two end stages simultaneously. From the 1 input to 3 outputs, to 5 outputs and 7 outputs distributors more than one can be accommodated in one instrument frame.

Therefore, to offer favourable solutions, our product range includes a couple of different versions. The versions according to type numbers are followings:

	Type number	Description	Number of distributors in one frame	Number of outputs
1	CW-4821	ASI Distributor	1	3
2	CW-4822	ASI Distributor	4	3
3	CW-4823	ASI Distributor	1	5
4	CW-4824	ASI Distributor	3	5
5	CW-4825	ASI Distributor	1	7
6	CW-4826	ASI Distributor	2	7
7	CW-4827	ASI Distributor	1	17

The **ASI SELECTOR** switches to the output the desired one from the signals led to its inputs.

The switching can be activated either with the front panel buttons or through the rear panel CW-Bus interface socket.

The switching occurs by digital circuitries at TS level, therefore no cross-talk arises. The number of switching cycles of the switching point ICs is not limited.

Construction of the ASI Selector is similar to the ASI Distributor; it is built of the same modules. However, the ASI Selector needs also control signals for selecting the desired input. The control signals are processed in a control module, which includes also the CW-Bus interface and a display module, which is equipped also with the push buttons for selecting the input and the LEDs to indicate the operational status of the bus.

Similarly to the ASI distributors, the ASI selectors are also manufactured in different versions, with different numbers of inputs and outputs.

The different versions according to type numbers are listed in the following chart.

ASI DISTRIBUTOR CW-482x, ASI SELECTOR CW-483x

	Type number	Description	Number of selectors in one frame	Number of inputs
1	CW-4831	ASI Selector	1	2
2	CW-4832	ASI Selector	3	2
3	CW-4833	ASI Selector	1	3
4	CW-4834	ASI Selector	2	3
5	CW-4835	ASI Selector	1	8

The BNC sockets of the ASI inputs and ASI outputs are arranged on the rear panel, insulated from the chassis. The number of the BNC sockets depends on the type of the unit.

The distributors and selectors are equipped with own switching mode power supply. The power switch and fuse is located on the rear panel. Replacing the fuse can be made after unscrewing the fuse holder.

The loop-through type inputs of the CW-483x ASI Selectors repeat the input signals after forming and regenerating, thus they can be led to further units. This feature permits building ASI matrixes from ASI Selectors.

In an other special application, the ASI Selector can be used as an 8-fold input for a test equipment. Here, utilizing the loop-through feature of the inputs, the signals can be looped through the 8 inputs, thus by using the selector, any of the 8 signals can be tested without disturbing the system and using no additional unit.

3. Operation and use of the units

The input module of the ASI Distributor senses the absence of the signal at its input, or the presence of a signal, which cannot be processed. With right signal, the related front panel LED continuously lights, with wrong or no signal, it blinks. Out of the front panel LEDs, the ones in those positions are operating only, which positions of the rear panel are fitted up with input modules (e.g. the state of the input module in position number 1 is indicated by the '1st CHANNEL ACTIVE' LED). The LEDs in position relating to output modules do not operate.

With the ASI Selector, switching can be actuated either through the CW-Bus or from the front panel. On the front panel, the GROUP SELECT button serves the selection of the desired selector group (at versions CW-4832 and CW-4834, which comprise more than one selector groups), the INPUT SELECT button serves the selection of the desired input within the group. The LEDs belonging to the selected group light dimly, and the LED of the selected input lights brightly. With no input signal, or with a signal, which cannot be processed, the LEDs blink dimly or brightly respectively.

Both buttons have "zero" position; in this position of the GROUP SELECT the input setting cannot be changed, and with zero position of the INPUT SELECT the output signal is switched off.

By setting GROUP SELECT to „zero" position, the actual INPUT SELECT value is saved: after switching the unit off and on, it will go in the saved state.

By setting INPUT SELECT to „zero" position, the output signal is switched off.

The CONTROL DATA RECEIVED yellow LED indicates the data traffic on the CW-Bus, the OPERATION ERROR red LED serves error warning and identification of the unit.

4. CW-Bus connection

The CW-483x ASI Selector can be connected to and controlled through the RS-485 level CW-Bus and via the Internet.

Dear User!

The necessary skill in programming this unit can only be achieved through trying the particular functions in practice. We hope this guide will be helpful to you in this effort.

Should you face any problems at using the unit, our experts are at your disposal at any time.

Attention!

Taking in operation the CW-482x and CW-483x units must be done by qualified professional according to the mounting instructions for the model CW-3002 and CW-4002 rack cabinet.



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