

ABB	Product Description			DOCPDCDCYPQ01
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YPQ110A board upgrade with YPQ111A board

The extended I/O board YPQ111A as YPQ110A is mounted next to the application controller YPP110A or next to another I/O board. In the case of local I/O it is connected to the I/O bus with a 64-pole ribbon cable at X1, and it is powered from the I/O bus. The same APC application program can be used as with YPQ110A board.

A time-out time can be set by software. When the I/O board has not been updated with new data within the time-out time the outputs are reset. This is not implemented in the local I/O function elements but can be used with remote I/O.

The watchdog function is used in the board. The micro controller in the YPQ111A has to refresh the watchdog once every 100 ms. The watchdog time out period is 1.6 seconds immediately after reset. If the watchdog goes off, all the binary and analog outputs are inactivated and the red LED indicator will turn on and the micro controller is reset.

YPQ111A always needs a connection board YPT111A for connecting the field instruments.

Benefits to upgrade YPQ110A to YPQ111A:

- YPQ111A board contains more channels than YPQ110A:
 - 16 binary inputs
 - 8 binary outputs
 - 8 analog inputs
 - 4 analog outputs
- Time out setting by software
- Watchdog function

1. UPGRADE PROVIDES

- YPQ111A EXTENSION I/O BOARD (code 61248285 in Parts OnLine)
- YPT111A TERMINAL BLOCK BOARD (code 61205055 in Parts OnLine)
- Assembly of the boards and the cabling work

2. UPGRADE DOES NOT PROVIDE

- Repair work and spare parts for repair, which will be charged according to the valid price list
- Assistance
- Waiting time caused by the customer or his actions

3. LIABILITIES OF THE PARTIES

The supplier is responsible for the defined preparation for and performance of the upgrade, and any reporting during the time agreed. When necessary, the customer is responsible for implementing actions identified in the service report. The customer is responsible for providing all available information of the system. The customer is responsible for providing assistance. The supplier must also have free access to the system for the upgrade during the shutdown as agreed, and the upgrading must be planned well in advance in order to reserve resources and service parts needed. In addition, it has to be possible to operate the system under its normal conditions.

4. OTHER TERMS AND CONDITIONS

The General Conditions of Orgalime SE 01 are applied for all deliveries and installations.