ABB

GLASS

# Compact control system Freelance 800F
## Tool set – function blocks for glass industry

**Easy and user-friendly function block library for Freelance 800F for version 8.1 and higher**
- For the automation of batch house, furnace and additional system parts in the manufacture of glass
- Standard graphics
- Functions and function blocks
- Protocols

**Integrated know-how**
**Special ABB function block library**
The glass module library was developed on the basis of many years of experience in the sector and process expertise in the manufacture of glass. Our special experience in this field could be called upon to permit full account to be taken of our customers requirements, e.g. in relation to operational safety.

**Supports easy and fast configuration**
The function block library contains pre-assembled standard graphics, functions, function blocks and protocols for the automation of batch house, furnace and additional plant parts.

**Tool set glass function blocks**
The standard version contains:
- 10 graphic displays
- Pre-assembled and dynamized functions of batch house via furnace to the lehrs
- Standard alarm protocols

**Your benefits**
- Standardized concept
- Easy and fast configuration
- User friendly operation and observation
- Reduces investments and life cycle costs
- Excellent basis for creating or adjusting additional configurations at minimum expense oneself
- Open for future requirements and extension of the production plant
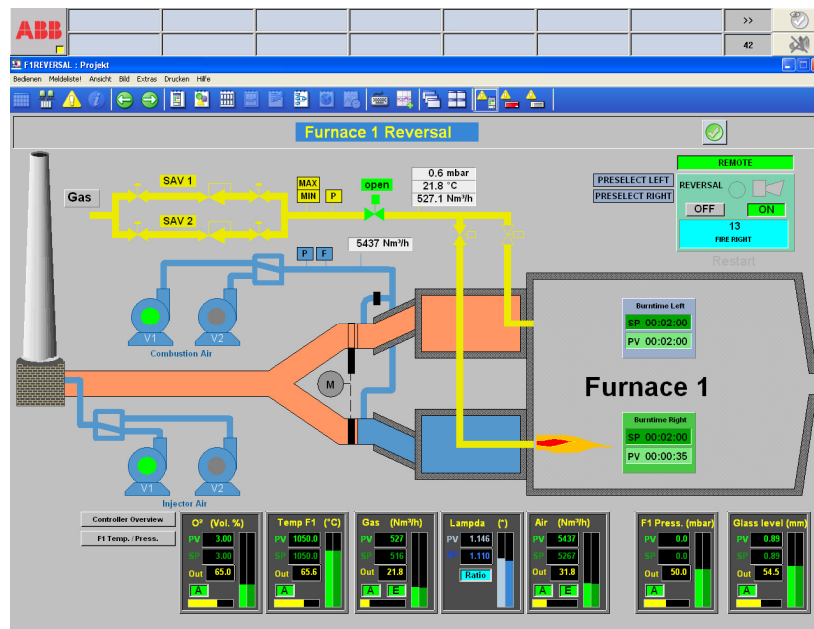- Aspects of operational and safety were integrated

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# ABB function block library for glass industry

Example of graphic displays and function blocks

### Graphic displays – batch house functions
- Raw material handling
- Batch preparation, metering and weighing
- Cullet preparation

### Graphic displays – furnace functions
- Fuel control oil /air or gas/air
- Reversal control
- Glass level control
- Furnace pressure control
- Control of furnace and throat cooling fan
- Excess oxygen monitoring
- Temperature monitoring and control

### Graphic displays – working end and forehearth functions
- Temperature monitoring and control for heating and cooling
- Fuel control natural gas/air
- Damper control

### Graphic displays – annealing lehr and auxiliary functions
- Temperature monitoring and control for heating and cooling according to cooling profile
- Pressure and drift control
- Monitoring of electrostatic filter

### Faceplates for standard functions
- Furnace pressure
- Glass level
- Excess oxygen monitoring
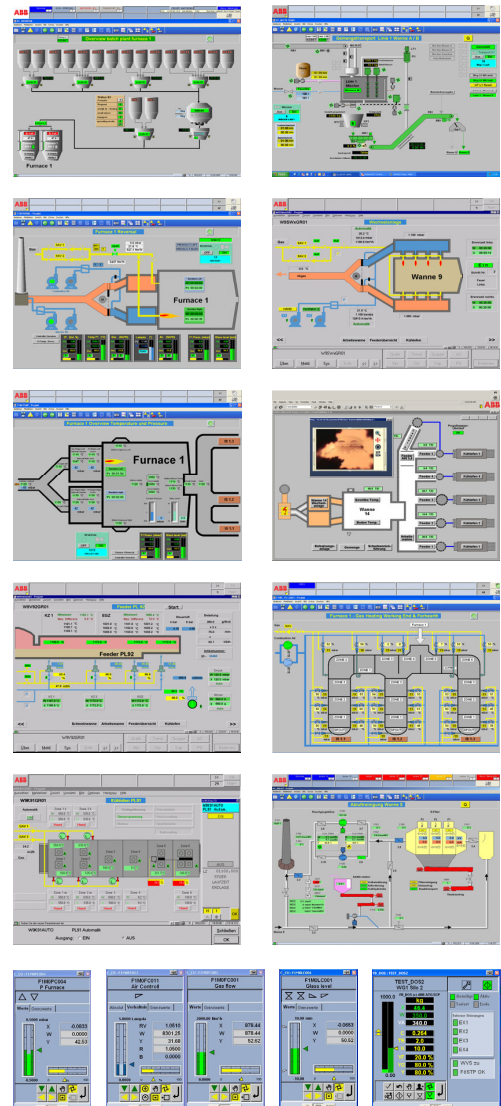- Dosing function block



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