

New

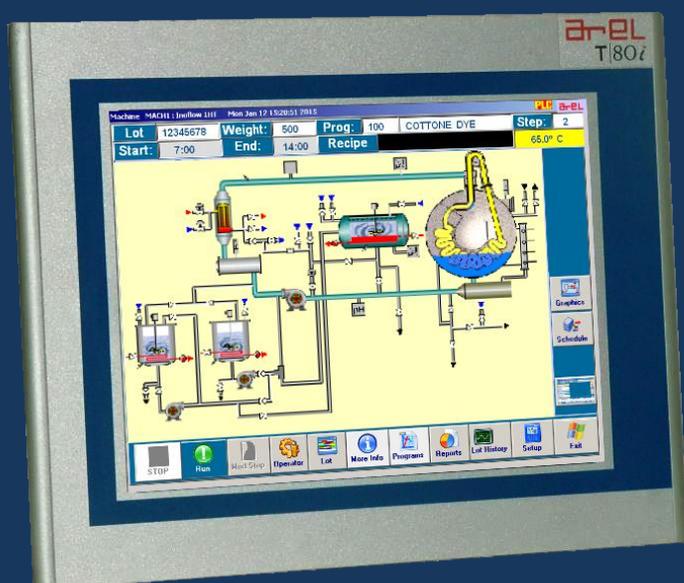
**arel**

**T|80i**

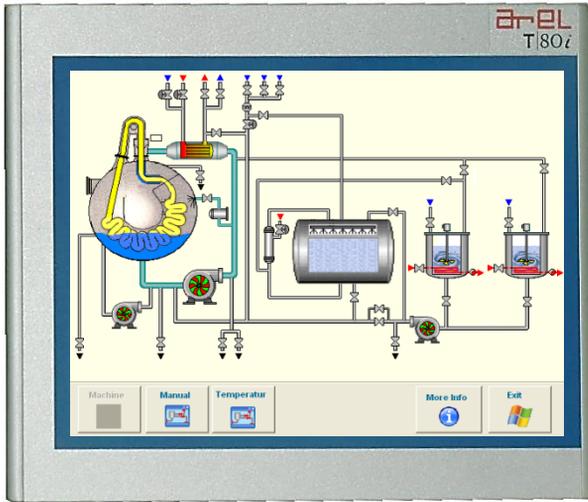
## Batch Dyeing Controller

Rugged PC Work Station

Sets new standard of power and value in Dyehouse automation



**T|80i** with 10.4" color TFT screen and unique packaging is today the most advanced and cost effective industrial PC dye cycle controller



**T|80i** is a rugged PC, no disk, fanless industrial controller with 10.4" high resolution touch color display.

Arel **T|80i** is a part of Arel family of PC based controllers.

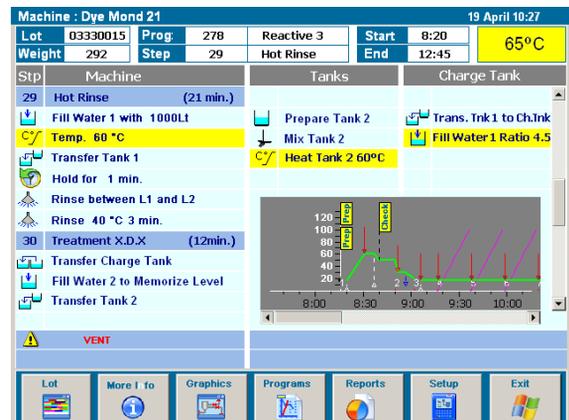
Arel **T|80i** competitively priced, has level of functionality exceeding the most expensive controllers.

**T|80i** is the ideal controller whenever high functionality utmost reliability and simple intuitive operation are required.

## T|80i

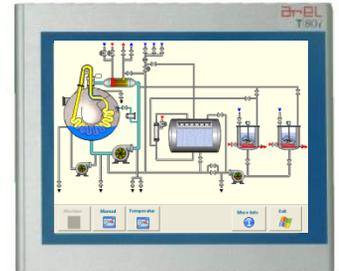
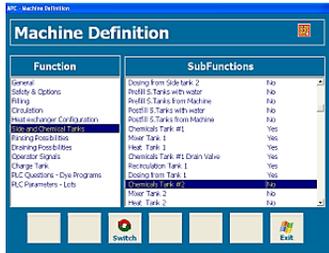
### Features:

- ✓ Unlimited **number of dye programs**, any length
- ✓ Unlimited number of **parallel functions**
- ✓ Full **multi tasking operation** of parallel functions
- ✓ Graphic editing of dye programs. **Automatic synchronization of parallel functions** for shorter dye cycles
- ✓ **Formula buy rules** concept-any parameter of the dye program can be calculated automatically to fit the batch or the machine characteristics
- ✓ **Dynamic** simple optimization of the most sophisticated functions like memorized filling, smart rinsing, dosing, controlled salts addition etc.
- ✓ **Past- Present- Future** display of the dyeing process
- ✓ Unique **historical reports**. Zooming from total plant data into each individual event according desired classification
- ✓ **Utilities** consumption per Lot and per Machine
- ✓ **Next batch preparation** while current batch is still running for maximum plant efficiency
- ✓ **Manual** activation of predefined functions
- ✓ **Intuitive** very simple operation
- ✓ **Multi language** support
- ✓ **Web and email** interfacing for data transfer and for remote analysis and support



## One stage immediate set up

With Arel unique technology, maintaining the controllers functionality is utmost simple, saving the tremendous complexity, which is involved with other control systems.



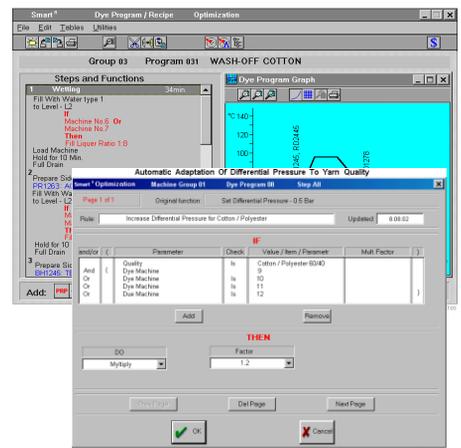
The adaptation of the controllers to the machine configurations is done in a PC by menu driven simple dialogue. THAT IS ALL. Once the configuration is finished, it is transmitted to the controllers, the inputs/outputs are allocated automatically and the PC, which sent the configuration may work immediately as a central system.

## Optimized SMART Operation

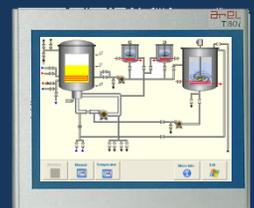
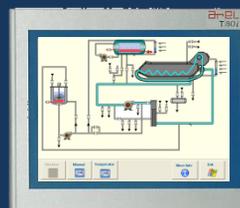
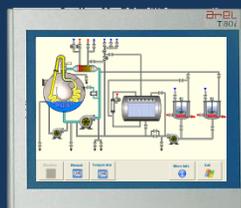
Very few dye programs are needed to cover all the dyeing methods, for the various machines groups and sizes, and for the various batches parameters and batches sizes.

Arel unique dye program/recipe management concept enables efficient and optimized operation of the dye house.

For simple error free operation the chemicals preparation function in the dye programs contains also the chemicals. Upon selecting a batch and a dye program/recipe to a specific dyeing machine, a predefined **set of rules**, fits **automatically** the dye procedures functions and the chemicals, to the batch characteristics and to the specific dye machine configuration.



## Management and Control Center



The most comprehensive range of software modules for managing effectively the dyeing machines, the chemical processes and the total dye house operation

### Production

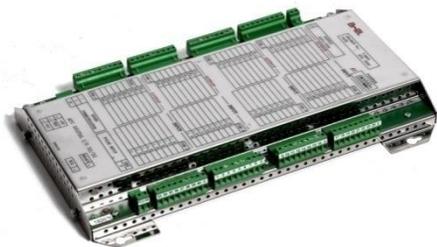
- Orders and batch management
- Scheduling
- On line dye house central control
- Machine maintenance
- Stock management

### Process

- Recipe management
- Dye programs management
- Management of process parameters

# Input Output

**T|80i** I/O boards are serially connected to the controller and can be located close or at a distance from the controller. The boards are packed in a stainless steel housing with clear legend for easy wiring and maintenance. There is no practical limitation on the number of I/O boards that can be connected to the controller

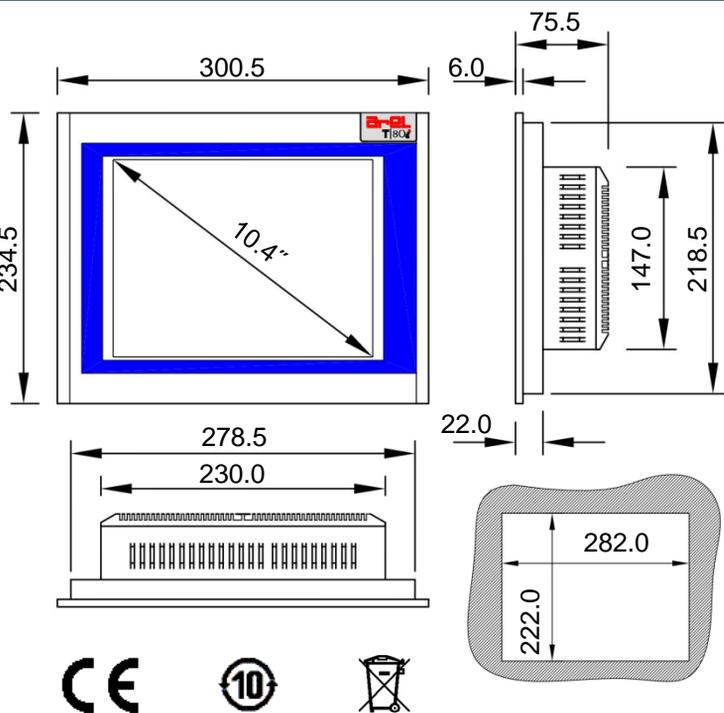


## Range of I/O boards configuration to fit economically any machine

	Analog			Digital	
	Inputs		Outputs	Inputs	Outputs
	0-20 mA or 4-20 mA	PT100	4-20 mA Or 0-10V	Opto-Isolated	Relay 1A 24V
Configuration	24/40			24	40
	32/32			32	32
	8/6/8	8	6	*8	
	4/4/16/24	2	2	4	16

\*4-20 mA only

## Technical Specifications



### Interface

Ethernet (2 ports )  
 USB (4 ports )  
 RS 232 (5 ports )  
 RS 485  
 VGA  
 DVI

### Environmental requirements

Front IP 65  
 Ambient Temperature 60C°  
 Humidity 95% no condensation

### Display

10.4" , 400 cd/m<sup>2</sup>  
 Color TFT LCD  
 Resolution 800x600

### Power

External Adaptor  
 100-240V 1.7A  
 50/60 Hz

### Weight

2.9Kg

## Arel tradition of innovation since 1971- Solutions for the textile industry

Integrated dye house control  
 Chemicals dispensing and dissolving systems  
 Salts dispensing  
 Stenter frames control

Continuous ranges control  
 Weaving and knitting monitoring  
 Plant ERP systems

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