



Rotalec

PC Based Control

ROTALEC PRESENTS: POLYMATH THE NEW PROGRAMMING PLATFORM

Rotalec is now offering ESA's Polymath, ESA elettronica's new programming software for terminals based on Windows CE.

Polymath is aligned with the latest generation of configurators and offers advanced and absolutely effective functions.

- Guided project creation
- Multilanguage management
- Multistructural recipes
- Exporting data on removable supports
- Advanced User management
- Rapid Script creation
- Compatibility with old projects
- Advanced graphic features

The new Polymath software is ESA elettronica news for HMI market.

It's a modern and complete software and is aligned with the latest generation of configurators..

Who should use Polymath?

Users who want to continue using panels belonging to the VTWIN family with a more powerful editor offering a greater range of functions, and users who want to use the new IT family of panels (based on Windows CE), benefiting from its single development environment.



What are Polymath's advantages?

- Modern and complete interface
- Advanced functions
- Optimizing the editing and running phases of the project in terms of time and effectiveness.
- No limits to storage of data, of recipes and of alarms
- Data storage on integrated compact flash, on a removable support or in the network

Polymath Features

Complex Controls

Complex controls make it easy to manage data structures like trends, user groups, alarms and recipes. A single click allows you to add to the page an object that includes the complete control table and all the predefined keys for control.

Library of Objects

Polymath has a rich library of objects that make a big graphic impact. The objects available, like buttons, indicators, valves, are divided into categories and are easy to position in the pages by drag&drop, making page layout extremely efficient. In addition, every object is configurable so that it can be adapted to the user's needs.

Popup

Popup pages are smaller than the project pages, in relation to which they can be superimposed, thereby making it possible to manage information and messages on more than one level.

In this way advice or indications relating to events and operations can be supplied immediately without changing context and without this being necessarily dependent on which page is being displayed.

Frames

Frames are objects which offer the advantage of being able to create individual portions of pages to be inserted more than once in different project pages. Examples of use of frames are the lateral menus or the navigation bars, which once created can be used anywhere in the project.

Multistructural Recipes

Different recipe structures, each containing a different variable number, can be managed.

The flexibility of this function means that sets of data can be prepared for different production sections managed by the same terminal, for product variants with different parameters, or for plant/machine variants.

Trends

Trends allow the user to monitor the variable progress by having graphics displayed and updated in real time. The analysis of the trend is made easier by Polymath which integrates useful navigation tools: zoom, interactive cursors and value fields.

Exporting Data

At any moment, all data can be exported onto removable supports, like pen drives and memory cards (Secure Digital), and onto local or network disks. In just a few seconds Alarms, Recipes and Variable logs can be accessed and modified too thanks to the LAN connection.

Reports

Reports are useful for printing data related to the state or to the history of an application (e.g. Weekly production). They can contain all the graphic objects that can be added to the pages and project data. In addition, they can be saved and archived, avoiding waste of space and paper.

User Library

Management of projects and their components reaches maximum versatility thanks to the library: in it users can save any project component that has been personalized by them (pages, scripts, alarms, push-buttons etc...), to be reused later within the same project. In addition, the user library file can be copied to other PCs and used on them.

Copy/Paste

Every element of the project can be duplicated or copied and pasted into other parts of it. This function saves a lot of time in project creation.

The aim of this function is to distinguish and to control the degree of operational freedom for each user in the course of any given work session.

User Management

Each project can be configured so as to control different users spread over 10 levels of authority. Any element or function can be protected by a password. It is also possible to trace users in a log file.

Guided Project Creation

Creating a project in Wizard mode enables users to configure their project with just a few clicks: simply choose the panels and the devices you want to interface with and the application will automatically be configured.

VBScript

Over and above the already considerable configuration possibilities, Polymath offers a further level of personalization using VBScript. VBScript is a standard language which allows users to create their own routines for managing the various elements of the project using simple functions and typical programming cycles.

Intellisense

It is thanks to Intellisense that Polymath makes it easier and quicker to create scripts showing the user at any given moment all the options available for each function or object property.

The software with Intellisense is able to suggest a given function's or object's next option without the user explicitly declaring it.

Object Properties

Users can define all the graphic properties, like color, dimensions, font... as well as functional properties like password level and associated functions... of all the elements in the project.

In addition the scripting motor means that users can associate a script to any property, giving dynamic behavior to the to an object, for example disabling push buttons, coloring objects, displaying pages and exporting recipes...

Script Execution

The execution of scripts can be associated with any anticipated or intentional event: change of value, exceeding a threshold, striking a key, elapsing of a timer, etc...

Alternatively tasks can be executed in the background when the application starts up.

Window Fonts

All Fonts that are usable in a Windows environment can be inserted into projects, making it possible to personalize and to make the graphics of the projects more comprehensible.

Import/Export of Translations

The projects can be displayed as runtime in different languages. The texts in each language can be exported and saved in standard CSV format to be more easily edited by any future translator using standard packages.

Print

Project reports containing key data of the application or the entire displayed page can be printed at any given moment by connecting a local (USB, LPT) or network printer to the terminal.

Alarms

The alarms that are available correspond to the ISA standards. In addition, alarm recognition can be configured in accordance with personalized approaches directed at groups of alarms or individual alarms. These can be catalogued into groups, each with its own priority level.

Basic Graphics

There is a vast range of standard graphic elements (potentiometers, indicators, geometrical figures) that allow users to draw their pages better and represent data.

Multilanguage Function

The text elements of the project can be configured in various languages (including Oriental, Cyrillic, Greek characters, etc.) with the possibility of either an immediate or deferred translation. Polymath also makes it possible to commute from the language configured during the project creation phase thereby giving the user a way of evaluating the representation of the string before transferring it to the terminal.

Compatibility with Old Projects

With Polymath all ESA family panels based on Windows CE can be managed; in addition, the software makes it possible to edit and compile projects created with earlier types of ESA software (e.g. VTWIN), while at the same time no losing the use of the new functions that Polymath puts at the user's disposal, like Copy/Paste and User library.



Rotalec
1-888-ROTALEC

177 BLOSSOM AVE. EAST
UNIT A, RR7
BRANTFORD, ONTARIO
N3T 5L9
TEL.: 519-753-5100
FAX: 519-753-5610

EMAIL: MARKETING@ROTALEC.COM
WWW.ROTALEC.COM