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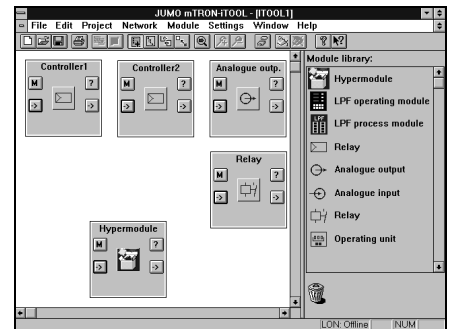800 - 554 JUMO
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JUMO
MEASUREMENT AND CONTROL

JUMO
mTRON

Project design software iTOOL
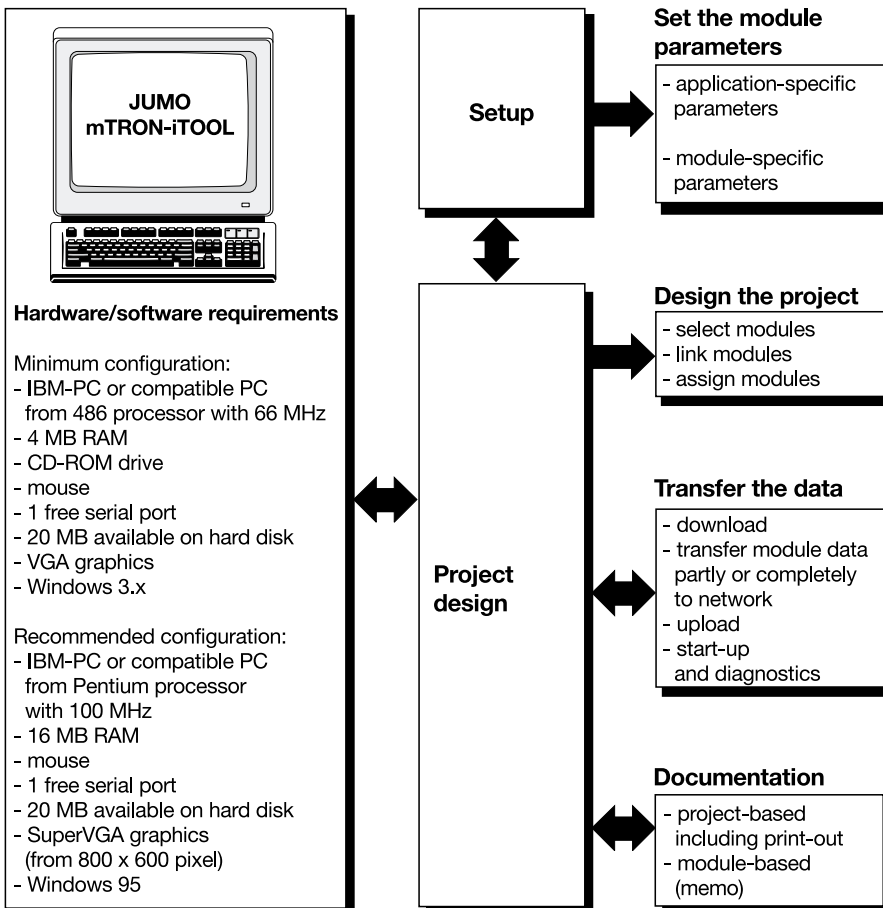
for stock items see price list

Brief description

JUMO mTRON automation systems can be designed graphically on the PC using the JUMO mTRON-iTOOL project design software. The menu and window arrangement of the program follows the usual Windows format. A module library containing the individual modules as graphic symbols can be called up at any time during project design. The modules required for the system project are taken from this library using Drag & Drop and can be placed freely on the working area. Any 16-character names can be assigned to the modules to provide a direct relationship with the real installation. The module carries a type-dependent symbol for quick visual recognition.

With this program the user is able to link instruments of the JUMO mTRON family, to set application-specific parameters with the aid of an embedded instrument-specific setup program, to load the completed project in the JUMO mTRON automation system, and to produce the documentation for the project. There is a choice of whether download or up-load is to operate on all modules or only on selected ones. When the project design has been completed and the project is operating, values of network variables can be indicated online. This provides a direct check on the design of the real installation.

Block structure

JUMO mTRON-iTOOL

Hardware/software requirements

Minimum configuration:
- IBM-PC or compatible PC
  from 486 processor with 66 MHz
- 4 MB RAM
- CD-ROM drive
- mouse
- 1 free serial port
- 20 MB available on hard disk
- VGA graphics
- Windows 3.x

Recommended configuration:
- IBM-PC or compatible PC
  from Pentium processor
  with 100 MHz
- 16 MB RAM
- mouse
- 1 free serial port
- 20 MB available on hard disk
- SuperVGA graphics
  (from 800 x 600 pixel)
- Windows 95

Setup

Project design

Set the module parameters
- application-specific parameters
- module-specific parameters

Design the project
- select modules
- link modules
- assign modules

Transfer the data
- download
- transfer module data partly or completely to network
- upload
- start-up and diagnostics

Documentation
- project-based including print-out
- module-based (memo)

Features

- **Project design**
  The modules are selected, links between them are defined through network variables and assigned to the modules in the system.

- **Download (upload)**
  The data can be loaded into the system, either individually or for the entire project.

- **Modem**
  Download/upload via modem for remote servicing is available.

- **NV monitor**
  Any network variables can be monitored on-line.

- **Drag & Drop**
  Quick and intuitive working through Drag & Drop.

- **Off-line operation**
  A project can be edited without any connection to the network.
  The assignment between the modules in JUMO mTRON-iTOOL and the modules in the system can be made later, either manually or automatically in on-line operation

- **Project documentation**
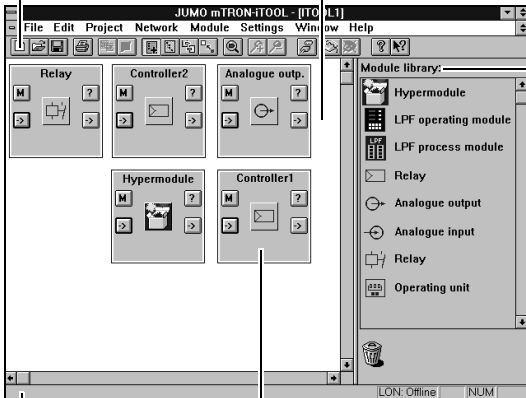 The entire project as well as each individual module (memo) can be documented.

The JUMO mTRON-iTOOL project design software

Tool bar
Important functions can be called up directly by
mouse click using the icons in this bar

Project window
In the project window the modules are shown on the working
area as individual graphic objects (module windows).

View mode
The project is managed through
different view modes.
Module selection, for example, takes
place through Drag & Drop from the
module library to the working area.

Module window
The elements of the module window are used to call up the lists
of input/output network variables, the setup program, the
module-specific online help, and the memo (documentation).
There is a free choice of module name (up to 16 characters).

Status bar
Brief reference texts are shown in the status bar.
JUMO mTRON-iTOOL and the setup program have additional
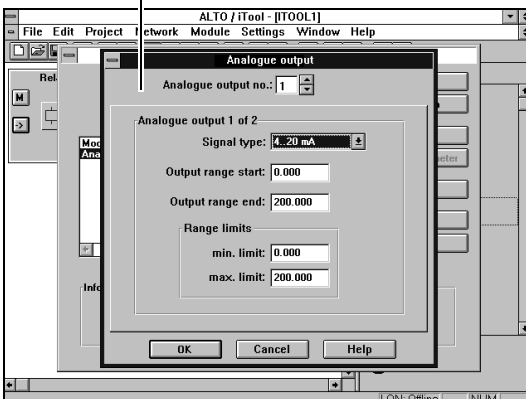extensive online help functions.

The setup programs

They are bound directly into the JUMO mTRON-iTOOL and are called up by a double click
on the module icon in the module window.
There is a separate setup program for each module to ensure clear setting of the module
parameters.

Setup dialogue (Analogue output)
The parameters of the individual module functions are set clearly
through module-specific dialogues (windows).

Training/seminars

Special training sessions and seminars on
JUMO mTRON-iTOOL are provided at our
Training Centre.

Details concerning available training ses-
sions and dates are available from local
JUMO offices and subsidiaries. The ad-
dresses of our head office in Fulda and of
our offices in the UK and the USA are given
in the heading of this Data Sheet.

Standard accessory

System Manual JUMO mTRON;
useful tool for configuration, parameter
setting and operation of the modules

Accessory

PC interface
with TTL/RS232C converter
for connecting the module to a PC,
length 2m.
Sales No. 70/00301315

JUMO mTRON modules summary

Controller module
Data Sheet 70.4010

Relay module
Data Sheet 70.4015

Analogue input module
Data Sheet 70.4020

Analogue output module
Data Sheet 70.4025

Logic module
Data Sheet 70.4030

Operating unit
Data Sheet 70.4035

Communication module
Data Sheet 70.4040

Project design software
JUMO mTRON-iTOOL
Data Sheet 70.4090