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JUMO Process Control, Inc.



Data Sheet 702110

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## JUMO diraTRON 104/108/116/132 Compact controller

#### Brief description

The controller series comprises five freely configurable, universally usable compact controllers in various DIN formats to control temperature, pressure, and other process variables.

The devices are characterized by a simple, clearly structured operation supported with texts. Process values and parameters are represented by two 18-segment LCD displays. The types 702112, 702113 and 702154 are additionally equipped with a pixel matrix LCD display for displaying text. In addition, all devices have individual display elements for the switch positions of the outputs as well as for manual mode, ramp function, and times. The devices are operated using a membrane keyboard with four buttons and can be used under harsh environmental influences thanks to the high IPDS protection type.

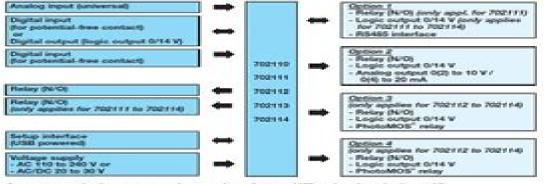
Depending on the hardware design, the devices can be used as two-state controllers, three-state controllers, as program controllers, manual mode, limit value monitoring functions, digital control signals, extensive timer functions, and a service counter. A math and logic function is also available as an option. Furthermore, the user has the option to create his/her own application using structured text (ST code).

The devices can be conveniently configured using a PC with the help of the setup program (incl. program editor and ST editor). No separate voltage supply is required when configuring via the USB interface (USB powered).



GraTRON 104 /1ype 702114

#### Block diagram



Approvals/approval marks (see "Technical data")

#### Special features

- Fixed-setpoint controller or program controller
- 2 parameter blocks.
- Autotuning
- Setpoint changeover (4 setpoint values)
- Ramp function
- Times function
- 4 limit value monitoring functions.
- Service counter
- Individual uses level
- Own application using structured text (ST code: option)
- Math and legic function (option)
- Fast wiring through Push in technology
- RS-485 Interface (option)
- Additional analog and digital inputs via RS-985 interface

# <u>Jumo Manual Po</u>

**United States. Army Air Forces** 

### **Jumo Manual Po:**

PTIPS Database Applications Users Guide and Reference Manual ,1996 Technical Manual United States. War Air Force Manual United States. Department of the Air Force, 1959 The Secret Horsepower Race Calum E. Douglas, 2020-12-02 The piston engines that powered Second World War fighters the men who designed them and the secret intelligence work carried out by both Britain and Germany would determine the outcome of the first global air war Advanced jet engines may have been in development but every militarily significant air battle was fought by piston engined fighters Whoever designed the most powerful piston engines would win air superiority and with it the ability to dictate the course of the war as a whole This is the never before told story of a high tech race hidden behind the closed doors of design offices and intelligence agencies to create the war s best fighter engine Using the fruits of extensive research in archives around the world together with the previously unpublished memoirs of fighter engine designers author Calum E Douglas tells the story of a desperate contest between the world's best engineers the Secret Horsepower Race Training Manual United FM 30- 30 Aircraft Recognition Manual Supplement No. 6 United States. Department of the States. War Dept, 1923 Army, 2018-09-29 FM 30 30 Aircraft Recognition Manual Supplement No 6 1956 12The Aircraft Recognition Manual covering air craft of the United States and Foreign Countries contains recognition information available on an unclassified basis

Construction Manual for Polymers + Membranes Jan Knippers, Jan Cremers, Markus Gabler, Julian Lienhard, 2012-12-17 Whether it be as translucent sheets broadly stretched membranes and inflated foil cushions or in graceful organic curves architecture today is utilizing plastics in the most disparate forms and for a wide variety of purposes Innovative technical developments are constantly improving its material properties at the same time there is a growing new awareness of its potential as a construction material While plastics used to be employed primarily as an inexpensive variant on traditional building materials they are increasingly regarded in the construction world today as a serious and viable alternative be it as supporting structures roofs facades or elements of interior design and decoration Thanks in large part to this inherent self sufficiency plastics are currently enjoying an unprecedented surge in popularity even among the international architectural avant garde as multiwall sheets or corrugated fiber reinforced panels or as filling between glass panes And the new generation of ecological bioplastics also pays tribute to the debate on sustainability ridding plastics of their lingering reputation as environmental offenders From the history of plastics and membranes in architecture to their material properties and requirements in construction and design the Plastics and Membranes Construction Manual cuts to the chase providing the kind of solid and comprehensive overview of the subject that readers have come to expect from the Im DETAIL series Selected project examples round off the reference work and make it indispensable for the day to day life of the professional planner and for every architecture library **Confidential Documents** United States. Army Air Forces, 1938 Technical Data Digest ,1947 A Manual of the Andamanese Languages Maurice Vidal Portman, 1887

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