

JUMO dTRON 316 COMPACT CONTROLLER WITH PROGRAM FUNCTION



Description

The JUMO dTRON 300 series of controllers includes four freely programmable devices in different DIN formats for controlling temperature, pressure and other process variables. As a temperature controller (TR) according to EN 14597 the devices are used in heat-generating plants to control the temperature of liquids or gases (mode of action: 1B).

The high-contrast, multicolor LC display for process value, set-point and operator prompting contains two four-digit 7-segment displays, two single-character 16-segment displays, display of the active setpoints, six switch position indicators, and displays for the dimensional unit, ramp function and manual operation.

Simple operation through 4 keys. The instruments can be used as 2-state, 3-state, modulating or continuous controllers. The controller software includes a program or ramp function, parameter set changeover, two autotuning (self-optimization) procedures, a math and logic module, as well as 4 limit comparators. Linearizations for the usual transducers are stored, and a customer-specific linearization table can be programmed.

A setup program is available for user-friendly configuration from a PC. A serial interface for RS422/485 or Profibus-DP can be used to integrate the instruments into a data network. The electrical connection is made at the back, via screw terminals. The possible input and output configurations are shown in the following block diagram. The option boards are universally applicable for all instruments in the series.

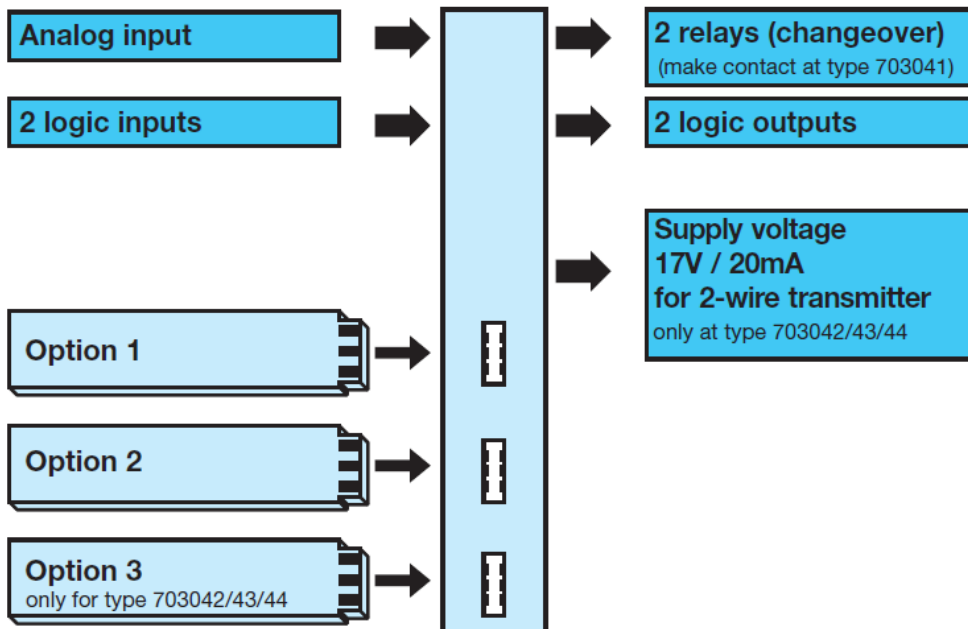


Product photo

Key features

- Up to two programmable analog inputs
- Four programmable setpoints, two parameter set
- Program function with 8 segments, or ramp function
- Math and logic module
- 4 limit comparators
- Two timers
- Two self-optimization procedures
- Fast, user-friendly configuration through the setup program with program editor
- RS422/485 interface or PROFIBUS-DP interface

Block structure



Option boards

- Analog input
- 2 logic inputs
- 1 relay 230V/8A (changeover)
- 2 relays 230V/3A (make contact)
with common pole
- 1 solid-state relay
- Analog output (voltage/current)
- RS422/485 interface
- PROFIBUS-DP interface

Approvals/marks of conformity (see technical data)

